SEQUENCE LISTING

<110> Rubin, Donald H.
Organ, Edward L.
DuBois, Raymond N.

<120> Mammalian Genes Involved in Viral Infection and Tumor Suppression

<130> 22000.0086/P

<150> 60/062,021
<151> 1997-10-10

<160> 127

<170> FastSEQ for Windows Version 3.0

<210> 1
<211> 925
<212> DNA
<213> Rattus norvegicus

<400> 1
ggggggaaaac cnggnaattg ttttttgacg anccaaaaag gggncnagna gcnnttntcc 60
tanatggggn cgggatcntn tccnaggana gattnatgga gtatnccttt tttgcncnaa 120
ggttgattgc tcttgaaagg ntttgaggtg naattcctcc gtnagtttga ccgtagtcgg 180
atntgaagag ggattgttna gcagncataa tttcattccc tgnacaccca gtaacnnttt 240
accgtcattt ggttgggaat tgatntcggg aggtancaan ggccacagtt atttattgtt 300
ncggaggatt gcaccaattn ggccggctgc ctctganatc tgtttctcat ccatgccggt 360
tcacccagac gaaagccgaa agcntcggga gtcctaactn tagtccntga aagtcattcc 420
cagctgcgta attgggctgt gcagagtccc agctcggtaa atatttgccc cgtgactgag 480
ctggagagaa tgctcctttc ttggtcctgg gcagctcttg gcagctcaca tgcactgttt 540
acctatcctc ccacattccc ccctgaggaa tcatcgtgcc tcggttccct taagtcctct 600
caacagaaaa caaggcagag tggaacgaag gaaagtcgcgt ggccgttaga aagcctgtct 660
cgaatctgtc ccacgtgcct caggtagcgt tccaaacagc aaagattcta gtgaagaaaa 720
ataccgtccg gtcaattagt caggtggaca gagcaggacc cggtgtcttg gaagcctcgt 780
ccattcctct ggggaaggtg gggggggggg tgtaatggag ctctcaagaa gaaggtattt 840
ttgttttcct ggagaaactg ccatcccagg agctgagagt ggatcagtag gaaggcctgt 900
gacaggaagc agggaggttc agcng 925

<210> 2
<211> 554
<212> DNA
<213> Rattus norvegicus

<400> 2
caagatngan ggggcggcgg ttcgnccaga gagcgggtag ggaagggaac gcgccggatg 60
agccngggtg cgganagcca gaccccaggc gtgggaaggg gagagagata gagcggccgg 120
ttgggaagag gaggaccgtg gttnataaat aacagaaagc ccagagggac gtanccatcc 180
gggatggaga gaggtaggga atccagntgt aagtcccaaa ctgccaccac cttcatnaga 240
actgcttcgt gtaaggtcac gcaccgggcc agctgtccng agtggcggtc ctggcgtgtt 300
aagttagcta aagtnactgc aactccgnct gtgcagactg ntcgtaaatt ctctctgtcc 360
gccaaattct ccctcctatt aaacttttca cttcctttca cttagtttcc tnacttcttt 420
caaacggaag ctgtaactga gcctgccacc cnganacntt gtggttgcca tttttatgct 480
aaagtaatcg tgtttttttat gcctgtcaac tccctttttca tntaaagcag ggcntaccct 540
attataactc tgcc 554

<210> 3
<211> 891
<212> DNA
<213> Rattus norvegicus

<400> 3
ttngaaanaa tttccgtnaa ggtcngnaat nggccccgga aaaaatgngt tcctgcccac 60
cttcattggn gcggatcctg ccngggaggc caatggttta acaaataatc tttnggagnt 120
ntggtngggg ggggagggac ncccacagan tcatgnggtg gttngggngg ngggcatcgt 180
tnngatatta tcacattntg ngaanctatg tnggggcttc ctttcngaca ggtggtggtt 240
nnacangngg atgtgtgctt ctttttcag cagtggtgga cccggattct aagaccctta 300
cngtaacaat gccctntttt cctaagccta accagtcctt tangaggant ggtcttgggn 360
acccatgctg nntcacctag ccttggntca catnttnnac acaggaaaag gcagcatgtc 420
ttntnggagc tcagcttatt ccctttcccnt cccatccagn atctccctgg gntggatgag 480
gtggatgacg catcttcaaa gcaccccacg tntcatggga tgtgcacagg agcttcgttg 540
gaaatgtgtt gcgcgaccag gcttgtgtag gaaacaacag actactcgaa attaaagtcn 600
taccttgcag ggttctcaga ggcttttacg cattaataaa catttgaatc ntaagaaggg 660
agcacagcat gtaatattnt tcaaattatc aggcnttgca accttcatta gtttctctta 720
cgcagctggg ngtggtggtg tgtaccttta atctcagcac tgaggaggca cngatatctc 780
catctctgtg acttccagac cggcntcgcc agagcaagtt ccaggccacc cagatgagat 840
gctcacagag gggacctttt tntgatgacc aacgnagnat gcaagtaagg a 891

<210> 4
<211> 974
<212> DNA
<213> Rattus norvegicus

<400> 4
aaaanaanat attccgnntc tnntagcnna gaagttntnc gagcntccc ccgtnttttt 60
aaaaacccnc ggattccggn nntcgggntt taannngnttt tttaanggcc cnaagncccn 120
nttattgccg ncntttcccc cccgctnttg cnccccttta cttngagant ngtgntncna 180
agatttnaag gttnttgccc ccccggcttt tnttcccctn nttttccccn nagntttaaa 240
accggtntgg gttncnantt nnttgnancc nccnattggg gttttccgntt accngggttt 300
ttccccatgn ccgttccctc caatnttgna cttcccnggt cngggtccna atnccnngna 360
acngntcnan ccttattgac aattaatttt tccttgngna ntctgncccc cngnantttg 420
gggttcttgg gngcagggcc ttttttttcnt tggnngcaan cncataaatn ttaccagntt 480
gattgctaag gaagtancca tggttgngaa ccccccccttn ttntctccca gatggaaccc 540
aggattttgg aactgcagag gcttcagggt cttgggaagc ggaggcagnn aaagattgga 600
gtgcactgtc cttttgcaat atggggtttg cctgcctgct ggctcntctc ctgctntntc 660
agatggtgac tgaggctact tcngcaggac tnggaataat catgtccagg tggctgccct 720
tccgagcaga aagggacaga cgtggggcga tgaagttgct atcgtttntt ttttttctg 780
cacagactgc aaagtgtgca gagggaggga ggctgtgcaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa ccgaggacgc agaagttaga ctgctgaccc atttggtgca tgtgtgccca 900
tggagggagg ggaccttntt taaagggttc acgcggcagg cantgggnaa nngnncctnt 960
acgnnnctcc caga 974

<210> 5
<211> 850
<212> DNA
<213> Rattus norvegicus

<400> 5
antttccct caagnaaant ntggtttggg caacttgaag acgcttnnac cnaaaaccct 60
tgnggagntt ggngaccttn ttaccgnaan gagtgggaaa cgttttcctc cgggttnang 120
gttaggggga cccgnnggaa aattttaaaa ccnngngggc tttttcgaat taaggggaaa 180
ngcggtttng gtnnntgaag ggcgggnggt tggagtcnna gtccagagtt gatttccacc 240
cacaaatntg ggaggtgncg gggaatgntg ncnttttctt gngatgaggg ntgccgtncc 300
ggantaacag ngnttgcntt gtntngcnaa acgaagagtn tcctgnttgg aataggngtt 360
cngttcgang ganccagatt tangngntgg agnaaggatt nggcagataa angcntgaga 420
natgnancnt ggancaggtc nggncnnagn ntacagatga tgnncccana canganataa 480
ntncagatca cagtcgtacc cgnggctggg ccatgaanag ggcatcccca gacnnacaca 540
ngccttnana antgntcaga gaaccancag tggntanggg ntgcccnnnn naccagggaa 600
gacccggggc gtgncggata ttgacacanc agatnncatt tggggncggt tcgagggttn 660
atgntcnccg agtacnagan angatcntcc aacccggaat ncggtgctcc ngtcgtccga 720
tgnaatgagt cgnccggnaa cctcatatcc aagaaacnat acagcagtgg nntccgagtc 780
tcgtatantc nttgcgggng gaggctatnt tcagaggnca agattaccgt tagcgggana 840
aagtngaana 850

<210> 6

<211> 531
<212> DNA
<213> Rattus norvegicus

<400> 6
ttgnggcngg gtctcctctg ngtgngngtn tccccnanag ggggggtctc acagtgtnng 60
ngtctnntgt ctgtgtngtg cccctgtccn catctctcac nccagggaga gagatgtgag 120
ananacatca gagatctctn gnacagtgtt tcacaagagt ctatcncana gagcacatct 180
gcccggggng anacacaact ctaaatgtgt ctcanntgat ctctctnttg tgtctctnac 240
atatgnggac atgctctcag agtatnggnt ctcttgngcn cttntgcaca cacacacaca 300
cacacacaca cacacacaca cacncttctc tctggcacag ggntatggca nagcacatnt 360
tnngagntca nagctntata tgagtgtgtg gcgaaaggng tnatnananm gacnncccca 420
gcnnatatag gggggngnnc tctngggctc tcttnggnaa tntgngggng agtctgcnca 480
cacaggcgct cnnacccanc nnnttggggc cccccaggng ttttttcncc c 531

<210> 7
<211> 572
<212> DNA
<213> Rattus norvegicus

<400> 7
tttttntgtg gcccttaaa ctctgngtgn ccgtntnccc nagaggggggg gtctcacaag 60
gagacancgg nnacacagag gttttgngnn tattgngagt ctctgcgcac nccananttt 120
aaccncgggg nctcntgttt tattttaaaa aaaaagagtc ncatgtntat ttctctnatg 180
tgaaaatcnc attcanagtt ntggggtttc ccntgaggag anatagagtt tcacactctt 240
ctctccgagg ggtcntcnca tgtntctccc caatgtgngn ggnacacaca tgnggccccn 300
agggggtgng ctctctctgc ncagggcncc ccccaanang tagaganaca ntgtggtgtt 360
tcacaacaca attcncgaga nattntgttc cncantggnn gtctnagntc ncatgttgtg 420
gngacangtt agnncncccc atnttcnccc ccctttcaca ctgccccnag agagagaaan 480
tctnggcccc ctctanannt ntttttaaat cnccccnnac gacaggtntt cccagggtat 540
gngacntcnc cnnccccncn aaagatntgc nc 572

<210> 8
<211> 906
<212> DNA
<213> Rattus norvegicus

<400> 8
tgggagtctc tctcatatgg cgcnttcncc aaaggggngt ctctntccng agncgcanac 60
gcgagaanac tctgtnnant ngtctccccc cncnccnaca gngtganant caaaacctct 120
agagcccccc agaaancccc tntctcaaan aaagagaaag agaagancga gnagnagaga 180
gananagaga gagagagtgt gganctntnt cctcngancc ccannnanan ngtgnggcnc 240
actcncnngt gnngngnacc ccnggggatt tncgcgtgtc cccttgngct ctgtntanga 300
gananatatg tntagtctct ctntcgcccc ctccgntgtc acgtgtgcgg ggcccnngag 360
acacagacac ntctctcang gggaacacat anngactcnc acntgtgttt atattcnccc 420
ctcccnctca cacanacaca cacacagnag atattnngct actctctctc tgtcacaggg 480
gtacanattt antctnggcc anacccctct cngaagngng ggcannngtaa accccgcccc 540
ctctcngaga angngagggc gntttacntt ccengtggcg tgtnegngcc cccgagactc 600
cccttngnac ccccctntna accctctntt tgaacncaac ncaccntccc cnttttctcg 660
gggnnggncc ngcncccnct ctcncaaaaa aaattnnaan ttngtcccct nccccnttnt 720
ttcnggnana aaccgtgtcc gggggggggn nactettttt tgnccttaaa atcaantttt 780
ttccccttttt ccnggggacc cccgnnttcc tttttaaaaa aaaanaaccc tttctccctt 840
ttaaaagnac ccnttttttc naaaaccgtt ccgnatttaa ttcctaaatt cccttccccn 900
ncccgg 906

<210> 9
<211> 914
<212> DNA
<213> Rattus norvegicus

<400> 9
gggatgngcc ctcagatcaa tacacccctc ngggggngtc tctctctatc tcccncagna 60
gactcccatc tctntntntn ccccccaganc tggngaacgg ngtgtggnga nccntntctg 120
ttctcnantc tctaaaagng cnaaaagcgc ananacacgn gcctctctat anatctcacg 180

tgtcccnngn nctctcngac ccctnntctg tntgagagac accctntctc aaaatatagt 240
gtacacgngc tttgnggctc tccccttttc tctccactnt tgagngngaa acgcggngtt 300
ntctctgaga tgtaganagn gtcccctnct cnatatatgt gttncccact ccnnagggng 360
tctcataaaa atcncntntc tcaacaccac cncctcnacc ccccncacga gaacacntcn 420
ccaccncnan gacacaaana naaggngtnn anaaccccan aaaaactnng ntntcngntt 480
tacacacaca cacacncacn ctcncncaca cccccacnna aatgggagaa aaaacagaga 540
ggngtgggtg ttngnntcaa caccntntta cctctctgnt gnnanttgag aaaatatttc 600
tntncttacc cctctccccc ctctgtgtgt ngannatatc ngntctagat gtcctnaccc 660
tccccaaacc tttctcnggn agagacntct ctntnttttt ccccncnttc catttgaaan 720
anangagaag gnccaaaaag gngggngtct tctcgggaat ncnccctttt ggcccccaa 780
cctgggtttt tttccccctt ccttttaatn anttttncna nacaaanctt tnngngtttn 840
ggaaaangcc tttnnctgnn nntttttcc cttcccctttt tnnangggnt tccccccccc 900
ccngaatttt tttt 914

<210> 10
<211> 400
<212> DNA
<213> Rattus norvegicus

<400> 10
ttcctgggtg cggtctcctc tgagatagtg tatcccctat agggggggtc tcactttagc 60
acagtttatg aatattatta catatttcac aagactttat attgttataa tatgcctcat 120
gtgagatata tgtgattctg tggtggtgtt ctcagagggg gtttgggtta ttggggataa 180
tagtttgccc ctcgcggggt ctatatttat atatgtgaca caatatatta gagagatttt 240
tggttatata tatttccctt cgcgggggtg gagatttatc acagggggag agcttttccc 300
ttgttagcaa aagtccctgg tctcgtcccc catctcccaa aaaaaaaaaa atgtgaaaaa 360
aaaaaaaaaa agggcccctc ttgagtgatg tcccccttctt 400

<210> 11
<211> 880
<212> DNA
<213> Rattus norvegicus

<400> 11
acccaatctt nanggtggca gtgnggnnga tcttaacggt ttttnagaaa aaaaantnct 60
tcgctcncac ccccaagcct cccnttctta ncagcttttt tatangaaaa aagatgataa 120
cgaaatttta aaaaccgtcg ttagaggaaa tgaaggttca gccgaccatt acctganagt 180
aatgaaggtn ttccggaggg ttgccttcca atcccagatg gatttgagtt tcaggatcaa 240
ttcagttacc gntgaccatc caccnnnctc cngtataatc attngatgag gatgaatggt 300
gagtgagtga tgatgatgat gatgatgatg aagggatgag aagnacacta tgataacaag 360
tgtctcagtc cacattaagg tttgcctgna aattagtgca taagccatgg gagacaaatt 420
cttttcnnac acaattaata gtntcttant ccttcccatc ttctctgccc cattctgttt 480
tccaccacag gtctgcagcg ggctacagct tccagtctcc aagcaaatac cagaactgga 540
ggagaaaatt ccagtccagt gagtcatggg cagggggagg ggtggggtaa gggcagtggc 600
gctcattcct nacatggtgt cttctcttgc ctagcctggg atctgagggc aagagaacct 660
gtaagcttga tttgatttcc actgctgact ggagtcactg ccaagggatt tgggacttct 720
ccatctctct ctctaacctg aaatccttag gattctatta tttcaccgga ccagagctgt 780
agcagagatg agctccaagt ttgaaatgag aaaggggaaa ttgagagcta tgagctaggn 840
gcgaaagncc ccacaaagnn tttggcaagt agaaaagncg 880

<210> 12
<211> 909
<212> DNA
<213> Rattus norvegicus

<400> 12
cgngagnngg cagggannna ggngggagcn ngagaggaga aggagaaggn nnggnaggng 60
nngngagnaa cgggcgggan cnnnngacga gagaangggn aggggancga agngcggngg 120
nagacggtgc nngggggggа ggggcaggag nggnagagag gcangagngg agnggggaca 180
agcnnaaanc gaggaggnan gangngangg nnggngngnc gaaggcgcnn aagnnggtcg 240
gngagcggna gnggnnaaac tggggaacga gacagacggc cccnncggng gcangnggga 300
gagnnncgcc agngagagna gncagnanca gancanggga ggggggggan ncacnggcgg 360
gagggncgan gacggnnngn annggnnaga ggcannnnnc gccnanagng ngaagngagg 420
cangagtgnc gcnngagnag acaggcccgc gcnccggggg cagacnnngg ncaccaccga 480

gggtgggngg ggcncggaga naagaccaga ggnnngaggg cganggcnng ggtnngcccg 540
ggccncccna aaaaaanncc gaaaaaaaan aaggggcgcn gcngggcngg ggaggagcgc 600
ntnncgtang tngantgacg gaggccngna atngggccgn gccanncnag ggcgnagagg 660
cccaagngcg gnaggngnaa gnanagancc ngnnggtngg gagnganagn gcnnggnncc 720
naccccngn gttganggcn cccacgncgg ngcaggccgn nnaaagngag tccccnaaaa 780
nntcgnggtn tnacancgnc ccggggncgc cgcngngtcc cgncacacng gannncggag 840
anngcctnnt ntctncacan ggngccanac nngntgctat gcaaaagggg cgnacttcna 900
gaaaaagnc 909

<210> 13
<211> 927
<212> DNA
<213> Rattus norvegicus

<400> 13
cctttattcg gaggcaggga nnncttgtcc gggaangtta aacgtttttt aaaagggggn 60
ncccnggggg gggggnttnt ccagggaant aaaanggtgn gttggggggn aaaaatttat 120
tttnaaaaag ggcgnccnat ataaangacn ttcgggggggg tttgaanagg gccggaancn 180
tcgacgggtt tccgggnggg ganaaggana agggnacgca cgggatttct tnccctttt 240
tngcaaattg cngcaggana ccaccgggtg gggnggtttt gttttccgtn aagaaagcgg 300
gngtggaaaa acanggataa acgggaagan ggggttattt nggttagnaa ttgnttccag 360
nggngccagg aaattggcct gtccaaaatt cttttcccng cttttaagac aggcaggtat 420
tatttggcag caggttatta cnataggnaa gtaaataaca atgggtaagt gcctggcaca 480
ggccagggta agtagggcat gtatggaatg ttaaacatta cccttcatcc tgagaaanaa 540
aanacaagna anaaaggctg gtctcacata tcccaaagct ttatcttcnt aggtgcccca 600
tggtgaacgt taagccaagc ntatgantca caagggacga catgggcagg ntagggtaca 660
gaatcagtgn tcagagactc caggggcacc cctgattccc tttgctgtca cacagacact 720
gctccaggga caacccctccg gatgtgagta tatgacttcc tgatggtgac gctgccgtga 780
tgggacactc ntcgtggtag cacacattcc tcagtcagct tctgagcntc agggtcccag 840
cagagcacag tggcaangac tttcattctt nttggncttt cccagggggc gtncccaaat 900
ggaagatttg gcaagntaag gaagntc 927

<210> 14
<211> 848
<212> DNA
<213> Rattus norvegicus

<400> 14
ttttccaagt aaancanggg anttcggtan aagaangttt aaanaagngt ccaggcancn 60
gaaattttcg nggntttggt taacgangca agcagggggg ggtttcaang ggtcttctaa 120
tnatttnaan gggngtagtt tctggtnggt tcattccttn aaaaaaaaac aaaacaaaac 180
aaaccgnagc ttctgcattg gccaccngtt gnggcaccaa cccttnangc attgcccttt 240
ccttcctgcc gtgtcgggng gcgctaagcn gcccttgtca ccttccattt ntngatcatt 300
ttccatgtcc ttgcacttct gcttccactt entgttggta gacgagctgt atgntcagaa 360
antgaagtac aaggccatca gcgaggagct ggaccacgct ctcaacgata tgacttccat 420
gtaaatgttc atgcaccctg cctgcttgca ccctcaccnt catgcttgtg tgatgacctc 480
accgtggctc ccccannann aaaananatc catgtctgca ccttttgttg gctttcttgc 540
ataacctagg ataggttatc ttttccacgt tgcactaaca aggccacgcg cattcggtcc 600
gtgaaaccac ctcggcatcc ttttatntca tagaggcaaa tntagcttgt ttctgccgag 660
agatgacctg gactccgaat gggctctgag tatntccttt taaaacctta aaccagantc 720
aagtaaagtt aggaagccat gaggcagtgg tgcaggaagt taggaagaaa naccgggttg 780
ttggtttcct gggnctgggg tgagggacca ttgatagacc tttacgaaan ganccgcang 840
atagaaaa 848

<210> 15
<211> 896
<212> DNA
<213> Rattus norvegicus

<400> 15
agagaaaaag gaaananngа aagaaagagg agnaaaaana aagaggnggn aanaaagaan 60
agangnanaa agaananant nngagattac gaantcgggg agagngaaag gaaacaaagn 120
nggnggnaaa gagnnanttn tttcaagggt ccgnaacaaa aagttgagng angattccna 180
acaagggntn nccacccaan ctgntaaagg gangatttgg ncaaacanaa accngtattg 240

gggagttaaa aagagtcacc aaatagggaa aaaaagttng ggggagggnn aacnacnggg 300
taaaggttcc aggaccagag ngttcagnac caagtttcag tattcaggag gacagagttc 360
aggatcnntt tggaacattg gggtttgggt agcntggnaa cacgaaccct tttgttcata 420
aaaaggaagg gaaaagaaag ggnngaagag tnttcccaga tgnattntga gcagagaatg 480
cccgaccccc cgaatacgta gttccaaaat gggattgnac ctgtttcacc tcaaatttca 540
ntcntccttc tngtggacag acgcagggat ggggtcgggg aaggggngaa gctggtgcgt 600
gttctgtggt tgccggtgga tgntctgcag ctgtntaccc caccgaaaac gaatggatgg 660
gatgtcactc ccaggcagta gggggcgcac gcgcattgtg ttntagagag anttccccag 720
cctccccngg aannacaaca cgttntcttc ttcttaaggt ggtggtgggg gggggggga 780
agacctattg ctttccgaga ggatcggacc aaacagcaga ttntgctcaa ggcccttgaa 840
ccctgntatc tcactaaaca tctgagatac tgacattaca gatacggata tcgtgg 896

<210> 16
<211> 858
<212> DNA
<213> Rattus norvegicus

<400> 16
gccaatcaag ttncggttaa attttggaaa ngnggcgaat gcnntgtctt gnggattttg 60
gagggnggaa ngtnggtnaa agagttttaa tgttcttggg atcgcaanta ttttcctggt 120
tcgcgncttg tacattatga gggttgataa cngctgtttt tngattttgg ttaacanggg 180
ngggngcntt tttnggntga cctntagtnc ntcngngccg ggcattttgg ntacctttt 240
atttttngaa gtncagggat gttgtgtact gggaatattc cttagaagtg accatgattt 300
tatattttat taaatatata cttagattca ntctttgcct aagcctggat gttgttggtn 360
tttgtttttg ttttgttgtt nggagagttn tcattttccc aagctggctt tgaacattca 420
cttccacaca aacatgtcca cacacgggca aaggtgtatg cacagatatg gacataacac 480
acacagagaa gaatnacaaa caaacaaaca aaatatttcn gacagaaaca antaaataca 540
tccagaaggt agaatattct acaaggcatc aaatcctgttc taaagaaaaa gttataataa 600
agaaaaacat tgaaaggcag gtgaaggaga ttgaaggcca taggggccac aaaaaggttt 660
aaacagcaaa gcaccaacgt agatatccgg aacgtgctaa atatggcaca cacaggatat 720
ccgggaacga tgagtcagcc agcggcacat ataaccaacg atgtaatctg ttatgtaact 780
atgaatcatc cctggcagag tgccaccttt gtgtgatttt tgtataaata tgcccctgag 840
accagaagcc attgcctt 858

<210> 17
<211> 551
<212> DNA
<213> Rattus norvegicus

<400> 17
ttntctgtac ccccttctca aaaaaagtgg ctggtgnctt ttctcngaag agaatcctca 60
ccnccncana anaaatatct ctctcccccc cttgttgntt gtcncccnnc ccaaaantgt 120
gngatctntc tcttctgtgca cgaganattt tagaggggga tatccccggg gtgtngccng 180
tgtctntcct ctcgcgaata tctttangag nctctctctc tcganccccc agngtaggnn 240
gagngganaa catttttntg tggnggcccc ccacaananc acnaacaana tattttcgag 300
aancncatgn ganaatcggg gggggggggg ccngtgttna cacnatancc ngggngatna 360
nanagacacn nnatatntct gggntgtgna aanataanac aagancanac atgnggagan 420
natgtgagan tgtgcacacc ctgttgtgac atgtgaggtg gggggctgat gatncctncc 480
ttctacgtnn tntcttctcc tccncantga tagacnccac ctgctggagt gnctagctan 540
ctggggtcgg t 551

<210> 18
<211> 888
<212> DNA
<213> Rattus norvegicus

<400> 18
gttaaatatg aaaaagtggg ggtgacaggg ggtgataccc tttgcgccgg gctatggatt 60
tttggcaccg ataagatttt caggtgacat ggaaggtggt tggggatggg ggaaagtttt 120
gaggggccaa aaggataagg aggatgattg attggtttgg gagcagtact tggaaagagt 180
gtgtttgatc ggtaaacaac cacgtgtagt gtgtttttgt tgcagcagag ataagtgaga 240
aaaagatttc aggagatctt gatttttttc gggtcgagct atgttggggg atgtgagggt 300
acaattcaca agatttgttc acagggagtt ctaggaggtg gtcccattag ccggtagggg 360
ggttttctca ataaatgggt tcagtcaggt gtttgcctag atctttcatt agttcctccc 420

ttcaaaggga ttttgaagga gtgctttgtc ctgtggagca attgactcaa tcaataaact 480
taagtaatct cccggattac tgttgatgcg ttcccagaga ggtcccccgt agttaccagt 540
gaatcacaat ttcctaacca tatgattttt gttaatctca ccacataaac ccacaattct 600
cgcgtccttt gtgatggttt caaagtctgg aatatttttt cctccatccc tcctttcctt 660
cctcctttta tccctccctt ccttttttcc tttcacagga tctcattatg cagcccagtc 720
aggccttaaa cttgtgatcc tcctgtctca gcctcctagg tgttaagatg acccaaatgt 780
aaaccatgtc cagttacttc ctcctaatcc catcttcaga tatcctttaa gaccaaatta 840
aatattaact gaaagacccc accagtaggt ttggcaagct agcaaaga 888

<210> 19
<211> 867
<212> DNA
<213> Rattus norvegicus

<400> 19
ctttttctaa atttttttaac gggggaaatc aaacggcaaa aaagaggggg gaccacctca 60
atcacccaca gtggaaaatt ggtgggtatc aatcaggtgt tattaggggg ggaggaatgt 120
tggggaacaa aaaaaaaatt ttaaaaattt ccaggggggt tttgaaggca ggtgatttaa 180
aaaccgcccg tcagttaagg gggttttatt ttttttttaat aaaaaaataaa attaggattc 240
tggaatagaa tttttaattc agggatcctt atttttaatg tttccagggt aaaagggaga 300
tattcttatc aggtttctgg aaaaagtttg cttggtttcc tttggcagga gagaggttta 360
aaaaagactt catttgaact ttttgatcat tgtgtaaaac tttttttttt gaacaaaaca 420
ataaaatgta aaaagatata gatcttaggt tttttaaaag acaaacatat aaaatattaa 480
aacagattgt ctgtcccatg caaatgactg actgaccttg taacagctcc acagagtgtg 540
taaaaacaaa aaaaagcccc ctgagagcct tgagccatca ggttaagtct catttattaa 600
tattttcaag gccacaggag acactctgtt cccttcattt agggaggtgc tgaggcagcc 660
atgttttccc agcagtgggg gttgggcaga gccactccag attggcttgg aggggtgtgt 720
agctctcagt ctgcccggac ttggatggtt tatttttctta aacgaaaaca cctgcctgag 780
aaagagccct tttcacgggg tggccaagtc ccagccccgcc ctgggagcca aggtcaagtc 840
ttagcttagc gttctaagga cacagat 867

<210> 20
<211> 897
<212> DNA
<213> Rattus norvegicus

<400> 20
aaagggnanc aaaaccntaa nggggagggg nggggaaatg gccaaaantt ggggttaaaa 60
aaagttagga tntggttgga tccnacccaa aaggaatttg ttnttaattt tttaaaggna 120
aatttgggca cttcnattgg gaaggttaaa acccaggcaa gtgntaccgg gntatgcaag 180
tgaaacntga ttctggnggt ggagggaagg atantganat gtgagtgagt gcagttgagt 240
gaggacttgt gagnacaggt catgcccacc aaagggagga gcaagggtgg gcagtggtag 300
gtggtgtgtg gttcctttct gggggntggg cggggagaca gatgagaacg ntattggagg 360
acaggnacaa gtgtactgaa atgcaaatcc ctgtagatct ggaaaaggtc tggnttcagg 420
cttgatgctt gggccggcaa ctgtgnacct tccctgnacg ttcagccccc ccacccttac 480
ggaagttttc gtcactgaag actagtggct aatcagagtc ttcaatggac ctgccaatca 540
gaaaggaagg cgggntnttc cgggtgcnta ggtgtaggat tcgctcagta gttaagcagt 600
cttaactggt tctggctgct gtgctntctg tcctgccgtt ggattntctg aggcatgttc 660
aggcaagctc caaagttgcg acatggtgag cacaggggca gggggggcgg gcggacgggc 720
aggggactga gcagtgggag ctggtgtggt gggtctttcc cggggctgag ttggaatccg 780
cggctacccg tgaggtctta gccactcact agacccagcg gcagtttctg aataactttc 840
nttgtagggg ttggnactcn gnaaagactt ccacnaaggn cttggcaagt agaaagg 897

<210> 21
<211> 435
<212> DNA
<213> Rattus norvegicus

<400> 21
gattccagag agaggagtga actggcagat aaggcagtca gcataatggc ttagatacca 60
tgtgctttcg ctcactatgc acccatgaca caagatcaca gggtacaggc ctggaccatg 120
gcagagtata cactggttgg gtaaatgaag aggagagaca gagtgggaag tcggcttagt 180
ggatatggac ttcaaatttg atgaacaagc aattcaaatg agtatcgtgg gcttgantgg 240
tatgaagacc cgtttgcaaa gcagtggtca taagagagaa aagagagaga gagagagaga 300

gagagagaga gagagagnaa gagagagagn gtgtgttgtt gttgttgttg ttgttgttta 360
ttggttnata acaanatnta cctttgggcn ctttngaaag actntncaca aaggagcttg 420
ncaagctaga aaggt 435

<210> 22
<211> 894
<212> DNA
<213> Rattus norvegicus

<400> 22
gaaaaaaaaa aaannataat tttaattttt cccccatttn aagggaaatn ggaaattaaa 60
natnggtttt nagcccaatg gaaattaaaa ttaagaaggt tgttttccaa aaacctttcc 120
ctagaggana accggccnat aggngggggn agnatggaag gattttccag agaggaatca 180
gtttggngag agaatttgat aaggagttcc ttggaaccaa ccnggagggg gttttggttt 240
nngggattna tcangatggt tgtccttggg aagcataagg ntggtttatt attttggtta 300
aaggggatga agtaccntgt gttgcacttg gtagcccaat gtcctgtcat tgtgctttgg 360
atgtaggcag ctttgaaggg atttntcctg agaggatctt ccggatcaga gtatatcgcc 420
ttttcttggt gaggccccat agtgggantc cgcacttcac catttctttt ccgcccgccc 480
cagttcggtt ntaacccacc cgcgtggcca cgatcccagg gacatagcgg gacaggcccc 540
gcagtgcggt gacacacgtg ggcacacccc acctgtgcag ccggtggctc gcgntgaagg 600
acacgaggcg cgacaatcgc gcgcggcgcc gaaggccaac cgccgcgttc atggtnttca 660
gaccaaagac ccacaagnta cgggttccgg tttccgggac ngaggccagc ccggttcccc 720
cgcggntgcg cagtgcaaan tcggccttcc ccgccggaag tactcctggg agcggtttcg 780
gcgcgtggca cttttcggtc cacctggagg caacactggc gccntttcct gtttcagtct 840
ttgntaggct ataagtgaaa gaccccacan gtaggtttgg caagctagcn aaag 894

<210> 23
<211> 594
<212> DNA
<213> Rattus norvegicus

<400> 23
ccattaatgg gggngggnaa agggataggg atttgggccn gnnggttant ggggaagtgg 60
gattttaagg aattccccaa aaatattgat tcttccaaag tattttcctt catttcccaa 120
nagagtaatt tcaaaagccc cagntttgtg gaatcanttt ttgaanatat gaaaaggccc 180
taatggtttc ggcattatta aggcccgctg aggacactgn tcaagttact cttggaaggc 240
gtttntggca gaaacagaac agccccgttg gcacggacag tgtccactgt ttatctataa 300
atcttttcaa gcagatcttg cagccaacta ggtacaagag tcggatgggg atgggggggcg 360
gggagtcaga gaggtcggaa caatgaggcg gaaaccaaaa ntntgaaaca cgcccacctg 420
aacaggacga aagggtgggg cttggtccac ccagaaggaa acctcgaact ccacntttca 480
aggtatccgc tccgggttag cagccccggc caaacgcccc tgctggcttc taacccaacc 540
agctacgaaa gcaggctnga ccactagctg ncctcgactt gaaagttccc acaa 594

<210> 24
<211> 586
<212> DNA
<213> Rattus norvegicus

<400> 24
atccaatnat tgggagtagg acaggggatc gggattngag gccagttggg ntagtgggat 60
gctgggaatc ttaaggaatc cccaanacat atggattctt ccaaagtatt ttccatcaat 120
tccaaataga tgtatttcaa aagccccagc tttgtggatc agtttttgca ntatatgaaa 180
aaggccttan tgnttcggga ttattaaggc ccgctgagga cactgttagg gcgcntcaag 240
ttattcttgg aagggtttct ggcagaaaca gaacagcccc gttggcacgg acagtgtcca 300
ctgtttatct ataaatcttt tcaagcagat cttgcagcca actaggtaca agagtcggat 360
ggggatgggg ggcggggagt cagagaggtc ggaacaatga ggcggaaacc aaaantntga 420
aacacgccca gctgaacagg angaaagggt ggggcttggt ccacccagaa ggaaacctcg 480
aactccacnt tcaaggtatc cgctccgggt tagcagcccg ccaaacgccc tgctggnttc 540
tacccaacca gctacgaaag caggcngacc actagctgac ctcgac 586

<210> 25
<211> 909
<212> DNA
<213> Rattus norvegicus

<400> 25
ggggggttgn aaattgagaa gcccnccttt cntctttgtt gtgaanacat ttnccntncn 60
gggggatccc tnggttccgg aagggccgcc ttagttnttc ttttcctcca cctatgaaag 120
gggngggagc cgattaaaag aagggnggag cagngaggga agcggagctt cgcccgtttt 180
ccgnaccctt aaccctgctt gttcgggggg ggagngtgcc accnacccgg gngnggtggc 240
acggagatnt gaggggggagg gatggtttgc cntggccgct ngtgggtggg cgggcaggcg 300
ccggcattcc cggcaccttc ngaagacnga gccgggttca gggacnnaca ntcccgcca 360
agngggacca accgcttcgg gtgggttccc cggttgtntg gtgcccaggc cgnacgccgn 420
gacngaggga gacccaagga cntagantca ccggtgagcg ggccggcgcc ggagagcgga 480
aagaggagcg tagcacagcg cagntcggcc agacgttgtt cttntaccac ccaccgagcg 540
tttaaaaaaa anaaaaaaan cccgcggcag cggacttttt ttgtagcgga gcccgggcgn 600
gtcacttgcc ggaagtcccg cccntcgttt ctgccaccgc ccntcggtta cctgggcaac 660
ggcgcggggg cggagagtgg ntgcgcccaa gggcnttgtg ggggtggagt caggcccggg 720
ttcccgatcc tngtagaatn ttntagaggc tttttcttta tgcgaggtac cagagggcgg 780
aagtcttgag gtggagaggt catgtcccag agccgtaagc cggggacgag tgctntcagg 840
cnntgtgcan ttgggatcct nnggnccacc ntgagggtcn tcacaaanga agcngncnag 900
taaaggagt 909

<210> 26
<211> 576
<212> DNA
<213> Rattus norvegicus

<400> 26
ggcaccgggg taananggggg gggagtngtc ctgggnncgt tgaacgctgg gggaggantg 60
gtnggggggct ccaagggggn nggggaganc tnaagntcnt caannntagag agggggaagc 120
tccccactct acatctgttg tcggagcacc ccccccagcca gagggcgctg tcagtcatag 180
actagagacc tcccctcaag tgnctcnatc cttccaatag acgagccctc ttgacgcctt 240
tttcagagaa ttctctaatc ctcgggtcac ttccgccccc ctgtcaagac ttcacatatg 300
tcctccacgc gagggggtgt ctagaaccat cataagaatc tctctgtcct cgttctttcc 360
tgtgataaaa gccgcgggag nttccttttg gggctctaga tctccgtgct gagtgtctcg 420
ggagagcgcg cgacatcgcg tgtgaanngc gacctgtctc cgcggagaat gggagtgtct 480
gtgtgcagat gtcatagtga gaaaccaccg ataagggtga tagggtaaaa gatacttaaa 540
gggctatgaa gaaagtgggg aagggaggag gggaga 576

<210> 27
<211> 853
<212> DNA
<213> Rattus norvegicus

<400> 27
aacnccccctt ncgggggggng gggaaaaana aaggggggtng gnggaannta aaccctagtt 60
taaaangggn tanangtntt taangggcna aaagnttggt ttnantccca ggngggtccc 120
tcctttgaan acccngaaaa attcatttnc agaggggttg gaaggggggag ccgaaaagaa 180
accccaacna cttcgcaagt aacaangggc cnaagggagn cagccgcacc ttttttccnc 240
cccgcccaaa ggccagccgc attcaccatg aacagataga ngtaggaggc aaacaattcc 300
agttaatntg gcggttgatg gcancttcgg attcttggtg gtatttctgg cgnatttgcg 360
agggagacgc ggtgttcatg atggcggctg ggngaggcgc ggaggcgacg ctggagcggc 420
ggagcgacga agttgcaaag gntcaggttc aaagcgnccg gcggggtcgg aggggtcgag 480
caccggttcc gttcaagcac tgttgaagca ggaaaccgcg gngantctgg gcgagaangt 540
ctggcgtagg gaccagcggg ccgcacttta tagcgggatc ntgcgtcagg cgcgntccgg 600
ccaatcagcg cggtgggccg cccagccccg cttnttcctg taggcgtgtt gcccaagcca 660
gcagtgcgtg ggcggggagg agcctgtgtg attgtgaggc gantcttggg gttatgagct 720
gntgcaagag cggtgcctgg caacaagcgg gacgtttntg tggcccgggg cggacgtagt 780
tggaaccagc cgtactacag aggcattctg ggtcccagag agtatcgata aggttgattt 840
ttaagtccca ccg 853

<210> 28
<211> 825
<212> DNA
<213> Rattus norvegicus

<400> 28
ggnttncagg ggnacccccc ccccncttnn antttgtcca cgnaanattn nngccnnnna 60

agganggggn ngggaagttt nagggcaang aaaagggaaa agtttngttt ggacaaacct 120
tgaaaggggn tttatcgcaa nacnccgggg gggggttttt ttgaaagaga aggggaaaag 180
attcggaanc ctgatttttt tggnttgagt naagnggggg angggnnngna aaaattaaan 240
ggattccngn gggggngact agtantttag gggggagaaa agggttttat aaggnccgat 300
aaagttcagc ggaaagccgg ntccggggaa gaccacccat gngttttaat tagagtgcaa 360
cgggttgaag agcccaggaa gcccaganac tagggtgagt caccgngaaa ntaacagacc 420
ataaaaggaa ggatgcagaa cagaccaggg tacnantcac aggccacttg gcaggaagag 480
atagccccca gccccngaat ncagagcccc aacctgccaa tgnggtagnt atacttatt 540
acttcatcat gtgaatagcc aatcatatgt gaacatgtnt atgtgcttcg tttgaatcca 600
ccaatcccng taantatgat ntgttctgna cgcccgnttn tgttccccaa tccntataaa 660
agccccatgc tggagctgct gggcgcgcaa gtcntccgaa gagactgtgt gcccgcaggt 720
acctgtgttt tccaataaac cctcttgctg attgcatccg agtggactcg gctcggtcat 780
tgggcgcttg ggactcctcc tgagggaaag tcctctctgg ggtct 825

<210> 29
<211> 861
<212> DNA
<213> Rattus norvegicus

<400> 29
anngaaacat ncccnncnnn ttnatccttt nggaaaaggg cancccaaag gnnnggaacg 60
gatngaanaa ttctttcaaa aagaganatc gganggnnat cgnnnnggtt ttcaagtccc 120
cccngagnan naaaattgag tcagtngggg gnaaccgacg nananaggaa caggtttccc 180
gggagtcctt gggtntcngt tcgacccccg gaaaccgaac tnncgcnttt nccttttggga 240
gnggggattt ntaaaggnna ncgggngtat ttccattcgg ntagttgttn gttcaagggg 300
gntgccggac ggacccccct tnagccagac ngngncccta tccgnaaaan tgttggggtc 360
caacccggta agacagattt ntcgccantg ccagcagcca ntggtaacag gattagcaga 420
gagaggtatg tagacngtgn acagattaag gaagtggtgg cgtaagnacg gacacattag 480
naggacagta tgnggtatct gcnctcggtt gaagccagtt accttnggat aanganntgg 540
tagntttnga tcccggcaga caaaccaccg ttggnagcgg tggntccttt gnntgnaagc 600
agcagantan gcgcagaaaa aaaggatctc gagaagatcc tangatatnt tgttcggggt 660
cagacgctna annggtntgg natnntganc ggntgaccat agagcacagt antgnngatt 720
gcagtccgcc ccnaggacga naggagacca ggggcccang ctgnagtaac naatcaacta 780
ccctnacnag atgnancaga gagagagagn accgtatant nahtgnaaga gaggtcccgg 840
tttcnagttc ccagnacgga a 861

<210> 30
<211> 149
<212> DNA
<213> Rattus norvegicus

<400> 30
attngaggag atccggttac taaggatata gaagaaaaaa ataaatcgtg tgcctgcctt 60
ttttttttta attgcctgct tctcccccacc cccaaattaa gttgcttagc aaggggggaaa 120
gaggcttttc ctcccttcag taggtcagc 149

<210> 31
<211> 857
<212> DNA
<213> Rattus norvegicus

<400> 31
gatctggtct tgcccnggan ganntcnntn ccgggggggn taaaaaagaa ttgntggngn 60
tgacnagggg gganaccccn taccgngggn cnancggaan tnttggncac cgnaaaaaat 120
ttccaggngn acangaacgg gtgcggnggg antaggggga aangtttgga gtgngccaaa 180
acggaaaagn agacgnttgt angggttggg aaccagnacc ntggaaagan tgnagttctn 240
atcngcaaca acgaccggag gtaggggggtt ttttgtngca gcacagatan gcgcagaaaa 300
aaggatttca ggagatcctt tgatttttat tcgggtanga cgttcangtn gnggggattg 360
ggagcggana accatttnna cacaggattn tatgaactat ggtcanttgc tttgttgtcc 420
angtcgttgt gggattgctg tttttagtag ctgcaaacgg ttcgttttnt gctatctttg 480
ttnngataaa tcagccccgg gcagangana ttcgaaagtt ccctttagga gcttatttan 540
acgggctcaa ngccaccggt ttcgtttttn taggcacgtt ctgcgcattt ttttttttttn 600
gnatntttgg atcgcgtttc gtgggatctt aaaaaccgtt ttctgtgatt ggcacgcaag 660
aaanactcat gagctggtcc ctgttgtgtc tctcaggacc aatcaaanac ccatttccaa 720

cggctttata atgtctggtt ctgtttgcac aggaagcgaa gtcacggctt gcacccgtga 780
agtctgggga ggttcagagc tgggaactgc ccagaggaag gggttcgggg ctacagccat 840
caatcttcca gttgttt 857

<210> 32
<211> 1630
<212> DNA
<213> Rattus norvegicus

<400> 32
ccccccccccc ccccaaaaan aanaattacc nttttaccat tgnggttccc ngtccntgat 60
aaatttttaa ccnncntttt tccttaaaaa ancgnatcct gangggattt ccgttnaatg 120
gnnttaannc ttttngngaa tgttnacccc aatnttcccc tnaattttga gtnngataat 180
tgcttanagg catttggaaa tttaacggnc acctgaggtt gattggttgn tattnaacgg 240
acttngatnn gaggaaggcc cccaanattt tgttccattc cttntaagtt tgggacttgg 300
aaatcccgtt gtttagatct tgaccgtaat caggagtcag cgtagaggag gccccggaag 360
gagggcccag cgcggattcg cccgcggcag ggcggggacc aacagagggc cntcggggat 420
aggggagcgc cgccccgccn tcccggggaa ggacacattg cttgttagca ggaagccagc 480
cagacccgga ggaggccgct ccagcgttgg tgttgccggt ccggggctag cctgatccgg 540
gcagggtgag ttgagacgat cgggtgagct tgggccgggg acgccagcgt cttcagtcct 600
ggggattgtc ccaggagggc aaggagcttg gaggagggag gccgcacagc taggggagtc 660
aggtctgagt cccgagtgtg ctctaaagcc ggggcggtga gagtggcggc ccgcccgggg 720
ccgcgcagcg ngcagtctcc cccgcgtggg aagtggtaac ttaacgcaca gccacaggat 780
tcccggcctt tagctgctgg agggagggtg gcttctcccg gaggagtctg ttgtgaaact 840
cggttggagg gcaccgtggg tgcgggcaag ggagagatgg ggtcgccctg aagaagtggg 900
gggctggagt agaaagtgga ctttgtgcaa acctcacccc agagtagtta gttaccaagg 960
ctggtttttt ttttttttttt tttttgctca gacacaagga aaatttgact caatgttaaa 1020
atatgtaatt tggcaggaaa actttttttcc tagcctcctt gctaatatag ttggaacagg 1080
gggctcccaa gaggtataga gtcccccatt ttacaaaatg tggttcagtg ggactgtggc 1140
ccacccagtc gtgtatccat ggaagagtgg cttttatgga gaagttcatt ttccttaacc 1200
ttaaaaactg taaaggatct tgtgcttgag aatattgttg gccagcttta tagtcttcat 1260
ttataaaact atttagacta gagtgttata gattataggt cttcaagttt ccagtcacca 1320
gtccttggct ttttagtatg gaaatcacca gtaatggcaa tataacatcc ctgcttctgt 1380
ttcttagaag gctaaattac agtgtgttca aactccgtgt cattgcaaca ggttaaacta 1440
actttatacg taggacatca gggtattgac attctcatcc taaagtcagt ttgtctgttt 1500
ccagaggagg aactgaagca gtggttcttt aagtaactga ctcagggctt tcctgcctgg 1560
cgcgcctgcc aggcatagtg tagcattgta ctgcatcttc tttgaccagt ttccccaggt 1620
gaagagcctg 1630

<210> 33
<211> 883
<212> DNA
<213> Rattus norvegicus

<400> 33
aaaaattgta aggagttggg ggnatccccc ataattnaaa nagggaacaa nccntaaagg 60
gagggnnggg aanggccaan attggnttaa aaanagtang tttggttgat ccanacacaa 120
ggaatttgtt anaattttnn taatggaaat ngggcacttc aattgggang ataaaacccc 180
aggaagtgat accngggtta tcaagtnaaa cntgattctt ggngnngagg gaaaggatat 240
tgaatttgag tgagtgcagg tgaagtgaga cttgggagna caggtcatgc ccacccaagg 300
gaggagcaag ggntgggcag tgtaggtggt gnggtggtcc ttcctggggt gggcggggag 360
acagatgaga acgttattgg aggacaggca caagtgttac tgaaatgcaa atccctgtag 420
atntggaaaa gttctggntt caggcttgat gcttgggccg gcaactgtgn actttccctg 480
tacgttcagc ccccccaccc ttacggaagt tntcgtcact gagantagtg gctaatcaga 540
gtcttcaatg gacctgccaa tcagaaagga aggcgggctt ttccgggtgc ntaggtgtag 600
gattcgctca gtagttaagc agtcttaact ggttntggct gctgtgctct ctgtcctgcc 660
gttggattnt ntgaggcatg ttcaggcaag ctccaaagtt gcgacatggt gagcacaggg 720
gcaggggggg cgggcggacg ggcaggggac tgagcagtgg gagctggtgt ggtgggtctt 780
tcccggggct gagttggaat ccgcggctac ccgtgaggtc ttagccactc actagaccca 840
gcggcagttt ctgaataact ttccttgtag gggctgcaac tct 883

<210> 34
<211> 913
<212> DNA

<213> Rattus norvegicus

<400> 34

ttccccccna gaaaaatatt tttngggacc canaaaaaan ggtcccnggn cctgttttct 60
tccncccgna aanaacttcc ntttccntgg ggggntttaa naaaagaana tttcattggn 120
ggttttntcc naggggggga gacccenttn nccgcgggcc tttcgnaatt ttttggtcca 180
ccngtnaaag attttcccat ggcgcaccat gtacgggttg cgaggngtat taggcggnaa 240
cggtttttna gtgggcctaa tacggnanat aggaggacga tttgtnttgg tttgtngagc 300
cagtaccttn gnaaagagtt gtagttttga tccggcaacc aaccacngtt gtagcgnggt 360
tttttgttga agcagcanta acgcgcagaa aaaaggatnt caggagatcc tttgatttt 420
cttcgggttc ngacgttatg ttgtgtggat tgtgagcgga taacaatttc acacagattc 480
cgatngtagt ccaatttgtt aaagacagga tatntttccc ttcaaagaaa acagaaaaat 540
acagaaacgt taattttcaa atctcnaatc tttcnttctc tcttcnntca ttcattcntt 600
cnttctttct tctttctttc tntctttctn nagaggaggc atgctagggt aacagtagct 660
cattttaaaa tctggcacct ggaattaatt tagggacaaa acacctttat gcaaaaaaaa 720
gtttatgttt ttccatggaa cacagtaaaa tcaaaattaa aagaatataa caaaggcttt 780
ggtgatttgg taggattttt tttttcctgg aggggaaaac agatgacttg gaaagtgtta 840
ggaacatatc aagccccagg gaaagaaaaa cgtttgattg gtattaatta aaacactgct 900
aatatattct aat 913

<210> 35
<211> 320
<212> DNA
<213> Rattus norvegicus

<400> 35

tatgcaccca tgacacaaga tcacagaagt acaggcctgg accatggcag agtatacact 60
ggttgggtaa atgaagagga gagacagagt gggaagtcgg cttagtggat atggacttca 120
aatttgatga acaagcaatt caaatgagta tcgtgggctt gactggtatg aagacccgtt 180
tgcaaagcag tgntcataag agagaaaaga gagagagaga gagagagaga gagagagaga 240
gagaaagaga gagagtgtgt gttgttgttg ttgttgttgt tgtttattgg tttataacaa 300
gatntacntt tggtaacttt 320

<210> 36
<211> 389
<212> DNA
<213> Rattus norvegicus

<400> 36

gggggggngc naaaagggtc tttcttttna naaaaatcnn gganggaggc cncnanacgg 60
ctnttanann tnttcngggt gtncctcncc gntgtgggga atganatntc gntctcgaca 120
tcaggggatt ggagattntc tgngctcncc nctcacnacc cagaagaagc gcacagagan 180
cagagtanca catcatacac acctnttcag ctacagagcg antnctctan aaggggactc 240
gggggganaac acaaccctcc tcctcttctg actgngagng ccgcntgtag gntctgtcta 300
cccancaagn cttgtgcagn ntgngaagct ctctntgggg tagagtgtgt tgngggagca 360
gggcgtantg ttccaggnct agnctctca 389

<210> 37
<211> 882
<212> DNA
<213> Rattus norvegicus

<400> 37

agnaacgcgg ncggnggnnc tcncccngcg gagcnggncc nccccccnngn ncccagaana 60
gnagcgctcg gngannnccc acgngnagac nnnggctgcc ccncgngncc anggcnttnn 120
nccnncccccc cgnatccggn ncncccccccc ctccctnggg gngcgggggt cccngngccg 180
nggngatacc nggcgannen ttgtgccccc gcnnggggggg naggacccccc ggcaccggcc 240
cngacccana ncagnngctt ngtgggggggc ccccccgcca nagaacgaat tncgccnccg 300
gccgcggcca tcggaacncn cctagcagng cgtcntgcta ggcnggnnna cgggnatccg 360
caancccncc cttngtaccg ggacagccgn gggnccgtat gggctgngcg ntnggccgta 420
gccanntncc tttngaaang acncggnagc tnttcatccg cctcacaaac cncngggncn 480
gnggggggctn tntcntgngc cgcccgccgc gtgngcgcan aaaaaaaaaa aanncggccn 540
tccnccccctc ttttggccng ggtnccccgc ncaccccgtg ccgagtnccn nnccccccac 600
aacctcacac cgatcccngt gggttcccnn ngggagtcgc ncgngcnnag cnggnttctc 660

cccatnncgc gnngcttnag cgngccnnnn cacngtttgt nngngnntgc ctccccttcn 720
tccttgaggc aaaagcccgn acngtntctg tggaccacnn tgctgaggng ctgggcgccn 780
cgntctctct ctctctcnct ctctctctct ctctatctct ctttctctct ctggggcccc 840
tcccttgntg nngccanaag nnngcnnacc cgtaaagtaa gt 882

<210> 38
<211> 975
<212> DNA
<213> Rattus norvegicus

<400> 38
aatttngnca ataanggccc ttcccctgag tgnggggganc ncncntgttc anaaggtacg 60
tttagcgngg ttctcnagtt natggtaacc nagtacttaa ttggcncnct tgataaatgc 120
tngatcctna naatttcaac aaccgcagga ccatttttga acttggcggn ngtttaccct 180
tnatgnnctt tccnnaaaat ggcttccttt gncatcnaat agtgntgccc ctaacccctn 240
ggttccggag gatgcatnng tggntgtgng tttgnccttg agcatgcngt tccgtnacgg 300
gancaagntt ntcaatgttc cntcacncca tacttnggct tggggtacaa nttgtatatc 360
ttcgggatta tatnagttta tgtctgnttt tcataaaatc acttgtggat ttggctttaa 420
ngttaggaca acttnccaca gtttcttgga tctccntcaa catgttaacg ccattttgtt 480
cttgtatact aaagtgacat gtcnttntng acactaacaa tcacaaatta ggagtaccaa 540
tcaactttga gaaaatttaa aagatgcccc atctcttgta tcagcaagta ttcagccagg 600
atttaattct ttatgtaaaa attagcaagc atttctatnt cattcacgtg caaattttct 660
ttgattgtta attaagattg aagtgatatg tatggcccaa ataagtctca ctttaaaaaa 720
tatttcttta tgaattatta tccatgaatg tttgatctgt atagctattt tatataagta 780
tatgcaagga ttgctaaaac aatttttgag tgaaaaaaga tcctaggtag aaaatgttta 840
agactaccta taccgtcatt aaaaactcct caccagcatt tactatggtt ggactttcag 900
agatctcaat caactctttc ccacccagtc tactgaaagn ttccacctgt agcggcccaa 960
gcaaactgag atntt 975

<210> 39
<211> 850
<212> DNA
<213> Rattus norvegicus

<400> 39
ggggaaaccc acggtnaagg gnngganaac naggtanctn tttctccggg ttccaanaat 60
ngaangcctt ccngagggcc ngaaaancat tncttcngga gccgttcaag ccagnaggtg 120
ggtttcaaac aatgcttaag ttgtggggag aacnagncag tccgttccng acccngttta 180
tcntaaagga gacggnggtt aaaggttagg gggttngaca gtcctgctgg tgttcaagga 240
ggaggagaca agttgncatc caggngngca ggaanacctg ttaaattcct gaccnaccgg 300
atgnttggag agcnaaggcg gattcttccg gcagtggcca gatttcaacc caggtcccgc 360
ccngcttttc ttggttaggc aagcaggcct tagtccgnga ggacgcccct tggtggccag 420
ggtatcacgg ccccccctngg gtttccattt gcagtttgta ttggaccatg gatcactgct 480
tccttntgcc ggaagttcca gattccaaac tgtgngantc ccatntgcaa ctcccatgtt 540
tgccgntggg acttttttnta atatcntggt acccgcttcc catttcccca ccccccntgnt 600
cccttcggga ggaatcaccg cccagtgtgt cacttcctgt aggnacttcc aaggntagat 660
gagtgagtgg caggcctcac nttggcccag ttantcagtg cccacagagt agctttttttg 720
agacgntagt aaggtcttag gggaaggaat gtagtcgatc cttctccttg gtggccctca 780
gcactgtgag tagacccccac acatcagggc tgtgtcgtta ggatctctgg gagggttgaa 840
agtttcgagg 850

<210> 40
<211> 889
<212> DNA
<213> Rattus norvegicus

<400> 40
ggggtttcca aaaatttggg gntttggana aaccttcggg gaataaaaca acngnnnaaa 60
attaaggggg gccgggggaa aaaggagatt nattaaancn ccacccgaat tnaaacnccc 120
nccgggaccg naaccgtttt tggccnaaan ncgagaagtg ccttccnggc aaagtagggg 180
accaaaggtn gggggagaga attggggttt gtncagngtt ccggttcnac ggaaggagcc 240
ggttgttggg attgtttcca aggagngngt ttgngaccgg agcacctcng gggngaccat 300
ggggnttgcc tgttagagac cngcgngatg ttttgggttc gnattcgggg agggatttcg 360
ggggcctcag acnggggagg agtcccntgc gttcccnatg ggaccggttg tcgggcgggt 420

gcagtttcgc tgctgtcctt tggcaatgng cntgggnatt ngtgggcaga ngagattccc 480
cngccccgc natttccccn gttccagttc ntaggnacca gaggttttcc gcagtgtgat 540
tcagggagnt agantntagc gtctgtnttn tntgcgtttt ccccttcatg attctcagtt 600
atttttagg agaaaaggtg cgtggaaaca gagcgtccct gttccgtgct gtttctcnta 660
gcccaaaata cagatttaat tctgaagcca tcgacccccа tatccacttc ccgccctctc 720
ataaacgtgt aatatggctt gctttttcct tgtaacgttt catccaacca tagtggtagc 780
ggccacctgg catcttgagg tgggttgcga atgagtgaat gaatgagtga gtgaatgaat 840
gaatgaatga atgaatgaag caagcttcag ggagattttc agagaagtg 889

<210> 41
<211> 929
<212> DNA
<213> Rattus norvegicus

<400> 41
aatgcccntn aggggnnttt ccccgnattt naaaatgggn tncnngnttc caaagtttcc 60
taaaaatttn cantttccgt ttttaccngg tttatggttt ncagcctact cctgttcgan 120
ttccaaatcg gtttaantgg ncccnccgaa ncnttntttn tttggcagaa ggtgaanttc 180
nttggggccc ttgtttaagg gttttnagcc ttaaattgnt tgntnagnnt ctccntaatt 240
agttcattcc tttgaccatc ttttgnccct ccatcttgta aacanttaag tctattgcat 300
tccactttnc tntcagttnc cgtttnaccc tcctnagcag aacccgnttc tcagctntgg 360
atggttccaa anggtttccc aacctatgct caataccaca ggcagcttgc aggagggaga 420
antggtatgt atttaacagc attttgaccc aaactttttag gagcagagag gactttaccc 480
aggacaggaa ggcaaaagac ttgaatctta aacaaaggat taagaacagg atgtcatctg 540
tgagcctgtc acagtgggtt tgcagagcag gagaacacag acaggattag ctataaagtt 600
gttacattag ttattntatt ggagcataca atacttaaat agttctaggg caagagaaat 660
gaacagaaat gaccttataa gagccagagc tgtagccaca gctttctttg tgcttagttt 720
gctagttcac tctttccagg gcagtctggt ggattacacc aaattgctta gaaaatgcta 780
gctctactgt ccctgtctat tgtcagcttt gcaatgtgca tagtgacagg agttgcctgg 840
gaagcttggg gcttatgttt tgcagatcca ttgtaattaa aaaagaattg taaggagatg 900
gaggcacggg gtgagggtga gggtgagtg 929

<210> 42
<211> 943
<212> DNA
<213> Rattus norvegicus

<400> 42
ttggaaaccc caacctggaa aangngtntt nccgggaaat tcaacctgcg ggcnaatggt 60
gtaaaagggc ctaccttggc ttngaaggga atntcctgaa ggnnnaatcc caannttgtg 120
natcccaatt aaggntnaac nggtttaatt tgtnntccnc ntaccnaccn ggtttnccgt 180
tatactaaag ggctaacaat taaatgctca naagggaccc ccaatcctng gcnagaactt 240
gggttaaggn ttccattagg atttggccatc ctntaccgtg atcctgaaca tntnttgaac 300
tgntttgcca aggaacngaa ggttttncct naagntagca cacagcagng accaaggatt 360
ggaacccagc nagtgcttgg aggtaaaaga tcacttccnt ntcccttagt caggancntt 420
agggagtgga ggcatcaccc acacattccc cagtttgnac gtaggtttca gccagcaanc 480
cgtccactaa agctgcctcc aattcaaact ggattgagtg acaagtggct tgggtgtctc 540
tcaaagattt ataggtggca atggccactc ctctgtgtaa ttaccctnta tgcacgtctt 600
tttnttctct cccactccat ccccccaccc tctttgtttc ttcntccntt cctntccctc 660
ctgttgactt tttctctccc tgcaaaacagt tccaggcacc gnttagcatn tgccactctg 720
gctntagaaa gctttgcttc ccctctgctc cctggctggc tggaactcag cctccggtgt 780
gggcagactg gctcatcctc tgtgtttctc tgagtgtgga ctgctgcctt ccacacagac 840
tctctgaagt caaggagccg caccagcact tcagttgtgg gccataatca agncangact 900
gaaagttgcc acctgtagng gccgcaagca aactgagatn ttg 943

<210> 43
<211> 867
<212> DNA
<213> Rattus norvegicus

<400> 43
aggaaaccnt tttaaaaaaa agggggggggg gggggggggn ntagnggcaa aaaagatgan 60
accctcaagn cggggggggt taaanaagga atcggattcg ggctttgnac aaataaagga 120
gttttgngng nattttcccc ntggtcgttt tntgnacgat ccacggttga ccgacgacgn 180

acggaccgac aaccaanacg taaaggggaa ttgtggaggg gttggaagtt tagatgcccc 240
gacccaggac gtgcggccan cttccggaga cccacctttc ttgtnggccg ggnccggcgg 300
cagcgnagcc atttccaccg gatccctata gcnggccagc ctagcaggcn gaacaccagc 360
gggaagttga ntnggacctc ggagagcgcc cgcccttccg gcggaagtnc taattccaaa 420
gcggcccgcg gcngagtttc ccatacaggt tggttccgtc tcggagtgac gtggcttgaa 480
ggacggtctt cgcgcgagaa gagtaccctg cctttcaggt gcgggagtta cntcagcctg 540
ctgcacaccc ggctgtgcgc antcttctgg tgtggccggg acggttcacc cagaggagtc 600
tctgtagttc ggagcaagat gtcggttaaa tctggcagga aaatgccttc tatgctcatn 660
tatatattcc tgcttccctc agcttgcttt cgacttagta aggtaacatt tcagagcggt 720
gcacttagta ctttttggca ctgtgctgta taaatataaa tgttccacac ttaacatctt 780
agatgttata tctaaagata tgcatcttta aacttcgaaa gcgcataccc taaaatttca 840
tatttttgca tacattggtc agctgtg 867

<210> 44
<211> 303
<212> DNA
<213> Rattus norvegicus

<400> 44
ggaaatgatt agtccaagaa atatttgagc agaagggagt tagggttttc aaattaggaa 60
agtggaatcc acagagttcc cttgacagag aatataaaaa ggactctggg gtgtcagaat 120
ggtgggcatt aacctgatct tccacttgag ggtaagggaa atgattagtc caagaaatat 180
ttgagcagaa gggagttagg gttttcaaat taggaaagtg gaatccacag agttcccttg 240
acagagaata taaaaaggac tctggggtgt cagaatggtg ggcattaacc tgatcttcca 300
ctt 303

<210> 45
<211> 840
<212> DNA
<213> Rattus norvegicus

<400> 45
aaaccggnng aanaaaaaan gaaannngang gcnnnaaaaa agttnngaca gaaaaaactt 60
tnggaaaaaa gganggggan aaggcaggng nccnactnaa aanggncttt tcnaagngng 120
anagagntgg naatnagnaa naggacattc ttnnaacctc cnanggnggn nggaannaat 180
ngggattgag cngccaccat tagggangaa gttngaattn nggggcccgn gngagttaaa 240
angattcccn ggtttttttaa aacagagaat acctncaggn acagatnaac ccgagattgg 300
ttccctngaa aattnnngan aaagataaan gtaggagcat tcaaagtagn anggtaaaan 360
taatgggaga catagacacc aaaaaaagcc agttcagtgg gccccgaagg ngcattaagg 420
gaggaccagg aaacggcagc anagccacng gcagccgcct gccccnacac cagtnattcc 480
cgcacntaga tccaggcgnt gggggcgggg cggggcgcgc ntgngcagng aagntnngcg 540
gcaacaantt tgcntagacc ggntggaacc ggttagaacc ggccgcgccg gaccggccgc 600
ccgttccgga ttntgcgttc acaaagggag gcgggactca cgacntgngt atcnttgngg 660
tcccaacccc ggcccccnac cccnaccccc nttgtccctg tggcattcgc gttctttccg 720
ccgtctccct cgcgggccgn ttntctgcgc ctggtgatcc tttcgccatg gtcctntgga 780
gaaagaaaaa atctttaatt tnctagggac gtccttttcc tgtagtcgta attgtagaaa 840

<210> 46
<211> 893
<212> DNA
<213> Rattus norvegicus

<400> 46
gagaaggann aggnggggng agngaagana gaggagggaa gaaangaagg tggaganaag 60
tggannaaaa agagggagan ggagggagaa ntaaaganag ganaagagng gggaggaggg 120
gnagnatagg agaggaaaga aagganggan agaagagaaa agaanganga gagaaaggaa 180
agaggaaaga aagaggggag aagaggaaga aanagaggag gggangagag ggaggataag 240
agaggaaaga gggaganagg nttgaaaagg gaaagagaag gagaaaggna gnaggngngg 300
aagagaggna agggagaggg gganaanggt aagggggnaa agaangagaa gtatnggggg 360
aaaggaggag angaaagaag aaagaganga ggaggagagg gagagtgagg aataaagggg 420
agggaaaagg angagaaaga gagagaggga gagggaagaa nagagaagga tagnggggtg 480
gagaaggaga aaggagagaa ggagaaggng agaggagaan tgaagaagga gggagtaaga 540
aaggantgag naggaaagga ganagagagg tagagagaaa anaaagaggg aaanggaggg 600
gaggagggng nanaaggaat agagggngga aanangagag aggggaaang gggaaggaaa 660

ggaggaaaaa aagnagagaa gaagagnaat gggaaggang nagtagnaaa agaaaagnag 720
aggggagagg gggangangg ggganacggg ggggaanaga aaaagtgaag gaggcccccc 780
nacccccccc ccccacacac acacacagcc ttttcgccgg cggaagtgca ggttggtcca 840
ggagcctgtg gtcaatccag tcagtagtgg gcgaggtgta acatctgtgt ccg 893

<210> 47
<211> 789
<212> DNA
<213> Rattus norvegicus

<400> 47
taaaananng gnngannanc tnnaaaaaan tntcttngga attnncagga nggaggntaa 60
tngggcgggc ancatcaatg gtanaaattt gggggggnng annaaaatca tnaanncaac 120
cgtttccana gncaaccatt ctgggngncc caaggttnga ngagntccgn tcaaggngaa 180
acctttttcaa gaccaattaa ctaggggatn agaggcgggn tggttnntga ggggcgggct 240
gctgagaaga ttcgttgggg gacccaggag tgaaggtttt tnacctgtgt ntntcgggaa 300
ggtcggatnt attatantcc tgctgttgga ggagttcggt ggttcaaggg ccggacccgg 360
agcgtttact ttttnttgnc cgcagccaat ttgttntgct tggtttcttc ngaatcccgg 420
ggcggggagg gggaagcggg gggcccaatc accacgatcc cggcagccac cgcgaaattg 480
ttccggcagn tacgantctt caacaagagc cagagaaggc gggtgcagag nttcattagg 540
acgntcggaa acccggcgtg acttactttn tccaagccca ttggttgatg agaatgatga 600
ctgacaggga ggcgtggtca cgctgtcgcg ggcgggagcg acgggtggag ttaacgacga 660
aagctgcgcg cgcagccatg acccctcaca gccacntatc ggagggaggg gcgggacagc 720
tttagcttgg tgcgtgcgca gccggacgtg aggcagttgg tggtcttcca tcgtcgattt 780
ctggttacc 789

<210> 48
<211> 872
<212> DNA
<213> Rattus norvegicus

<400> 48
gggggnggct tttttnggag gcatanatng gggnnngtcc ggnaaacccc attggtcggc 60
cggggaagga aaanggggct ctnaaaatan gttantggga tggngcctta agggggggcc 120
catgngccag gaangcagat tcaaaaatgt tccaagtgga aaaccanggt tggnanaggc 180
cctccnggnc gtnaaggagg agaggagaga tggagtttca ggtgtgtttc ccacccagtg 240
ttcccaggga acacaaaacg gataggtcac cntcaatgna caaggaatta aaagcttggg 300
tgtatnggga ggcctgcttc caaagccacc agaaaatccg gagagccggn ggatcntacn 360
cacccagagg ttcataggga gggcantatt aggggtgtgc ccttgtgaga ggaagtgtgg 420
cacngtgggg ctgggtttga gatntcagat gntcaagcca ggcccattnt ntctctctca 480
gtntctctcg gtctctttct cngtctctnt tcagtctntt cagtctctct cagactctct 540
ctctctctct ctctctctnt ctctctctct ctctctctct ctctcccngc tgcnttcaga 600
tatagacgta gaantctcnt ntatccagca ccatgtctgc ntgcatgctg ccattnttcc 660
caccangacg ataataggct aaacttntga actctaagcc agcctcaatt aaatttntan 720
gagtcaaacc agcctcaatt aaatgttttc atttctatga gtcacagtgg tcatggcatt 780
tctttacagc aatagaaacc ctaactaaga cttgccgaaa cctcaaccac aacttcagcc 840
ctcagaagcc caagagggaa aagaccttga at 872

<210> 49
<211> 785
<212> DNA
<213> Rattus norvegicus

<400> 49
tcgtaanttt tnatccaccn gtanangatn ttccatgcca ccatgtacgg ttacgaggng 60
tatagcgtgn acngttttgg agtgngctaa aaggaaatgg agacntattg tnttggtttt 120
gtgacccata acttcggaaa ggttgtgttt tatccggcaa caaccacngt gtagcggtgt 180
tttttgtttg cagcagcaga taacgcgcag aaaaaggatn tcaggagatc ctttgatttt 240
ttnttcgggt tctgacgntc atgttgtgtg gaattgtgag cggataacaa tttcacacag 300
aattcaaagg agaggagcca atatagaggg ggaaaaaaaa agaaggggaa agcattagtt 360
taaaaagttg agagaacaaa gtatgttttg cttggatggg caaccaaaga agcntgccag 420
gaatggtcgg taaaaggtgt aagagtcatg aaacgtcttc tgtccaaccg ttaccggaaa 480
catgcaagga atttcttaga ctggccagga ttggattgtg ggaaaggtct cttcaagcnt 540
ccccttggct tttatggcaa gaaaatagtg cggactatag agagcgtcgt tctcaaagct 600

tgtccccaat agcagaaaag cattgtccta aattccttaa aaggcaccgt gaaataaata 660
ttacgaggac acgatggcac aagaaggagc tttcaactct gccaccagaa cagttatact 720
tcatagtaac catgttgccc tgttcaatga caaggcacgc tctccagcag aaagggaaaa 780
ggagc 785

<210> 50
<211> 889
<212> DNA
<213> Rattus norvegicus

<400> 50
nttnnaaagc ganccggccn gggnggtttg gncggcgctt tatacnaagn cgngccaatn 60
ggctttgggn gggntttcat anggnnntgn tttacccaat tcagtttttt attggtnttt 120
natgggcgca gggatagngn gttcnggntt cccacangaa tttgatttnt ggaatcacaa 180
gtnaccagtn gccgnaatca cgagtttgcc gctttntttc ctaccttana ttcataatan 240
gaatgagtan ttttttttta ttgagnaang ttttnacagg tttagtaaac atgaggacag 300
aggttttaag ttgangatta ggaaggagag ttccggggga cagaatgtgt gtattntcag 360
tcagtgcact acccggaaga gttgcagtca ggttgaggaa gggagcggat ttcctggagg 420
ttttaaccaa cagagagaaa aagcatttac tactgattaa gcacacaatc tctggattca 480
gagaagggtg tttaccttta tataaaatgt ctcctaactg cgtgactgtg tgactttgtt 540
gaagtcaact gagcactgac tgtgttgtgt gcaacatggt aagaggacca actttnttct 600
taaattttat ttattattta tgtcacgtgn acacttgttg cttttgtttt tgttctaatt 660
ttatctgcat atatgtctgc ataccacgtg catttctgat gcntacagat gccagaaaag 720
gacaccgagt ttcccctggg antggagtta tagatggtta taagtctctg agtaggtact 780
gggaagtgaa cttcagtttc ctctggaagg gcagaaagcg cttttcaaat gctgggccat 840
gtatttcagc ccctacttaa tttataattt tattttagag gatgtgctc 889

<210> 51
<211> 947
<212> DNA
<213> Rattus norvegicus

<400> 51
anaaaaatng agaagangag accccagaga agaagnanga gaganaacag agaagaagag 60
agnaagggng anaaantaga gaaaggaaaa gntcttaaag aggcnanaaa ntancnatnn 120
aaggagaaga nggaaggnta acataggagn caagaatana aaganaaaaa gaggtagaga 180
anncagagaa cgagaaaaga tgaaanaaag antanaangg aagaaagang nccagnanaa 240
anaaggcaga aanaagatgn cgtaaaanaa gagagaagat aggnaaaata gaggagaagg 300
ccnaacagga ngggaagagc agcgaattnn agataaaacc ggagganagn nagagaaggn 360
agagntngnn aaggcaaaga cagnanngag nacggtacnt gccccagaag gnngaagaan 420
gncnagangg tgagggnngg cacngnccnt tcccccttagg aggncgcccg cccagagatc 480
aggtttcnag gncaccgagt tggatacnag attatncacc naggcaggaa angantatng 540
caaaangatt cggggngggg tcacggggtg agaaataaan tcannaaana gaggacgngg 600
aggagggngg gaaactctng acagaaatng caagcangaa gccagccnca cccaagcccc 660
nacngaagca gcngagangt tgcanggcgg naggtccaaa tcancgnagt catggagnga 720
gcttcgggng ggcccnganc cantgaggaa gggcaggaaa ccatatcnag ccgagccnng 780
nganggntgc cctganacac cgggagaggt aatttttatt tnacgggaag cgtccagnca 840
agttcgtggg ccggaagaga cggtacttta gtatacancg ctnntgctnc gagttgtnng 900
nccttntnat gnnagatctc acaaangaag ctnanaagta gatatgt 947

<210> 52
<211> 860
<212> DNA
<213> Rattus norvegicus

<400> 52
aagggaattt ttaccccggt tnccttttgn cnggggggna aaaaaannaa aaaataattt 60
tttaaaatta aaggggnggg angtttttcc ggttctattn ngccnattcg gggttacact 120
tttatccanc ntttgntttt ttanccggcc gggttaaaaa tgggggggga ttagttcggg 180
taggngttnc cnacagcaca gccctgtttn tcttcgttcc ngaaaaaaaa aaattttgct 240
ggtntcacaa ttttnttaaa caggatttnc ttcaaccatg gattaataca tttccggtgc 300
agnttgcccg gtttgttttt tggntggata gggatgccag caggattcag ggatgcccat 360
tgtgnttagt ntctggccct ttaggagagc tttgggctaa ttatgtgacc gattttaaga 420
agtggtgttg ttgtggttcc agggactcac ggatcagcct ttatttttata aggacactgt 480

ggaggagaga cagaggctga gctgcattct gatgtcattt gtgctgctgt ggaagttaaa 540
gaaaagctgc agaagtcagc aaaacagatg aataccaaga agggcagtgt gagtacagga 600
atggagagaa aagtcagagt ccagctttgg ttaactccct aggatcagac anttctgcgt 660
aaggacgggt ctacagttta acagaccaca gagcaangtc aaacagcaaa gtggtttcat 720
ggcaggcagg aaatggaaca tttaactgga aacactgaac ccacccatgg caaacttagc 780
aatgaagctg ggtgtggtgg cacatgcctt taattccaac actcagggga cagatntaat 840
gagtttgagg ctagactggt 860

<210> 53
<211> 191
<212> DNA
<213> Rattus norvegicus

<400> 53
aggtctgacc acttggaagc ttgccctgan tcatagatga gccactgtct tcttcccctc 60
aattcctcag gatggggaac agccattggg cttttagtag aggagggaca ggccctttg 120
cagcaacagt tctcccctga atgttggatc tccacctata cacatggggt acttagcctt 180
atggatgccc c 191

<210> 54
<211> 988
<212> DNA
<213> Rattus norvegicus

<400> 54
ttnttggnna cgggtntccg nantatgaan ccnttcccgg ggtttttaaa aancccngga 60
tattcgggga tttgggtttt nnacggcctt tttttnagag gccaaatncc cntntnaang 120
ccttttatcc ttccntttnt gccccncttc naattaggaa gcntggtttg nccgantntt 180
aaggttttta gtcntccttc gttnntnttt cccttntttt ttccctnaag ttataaagcn 240
ggtatntggt ttgccaggnt tctnttgtac ccgtcatngc gggttncggn ttacccaggn 300
tttgttcctn ggccggtncc ttccaatttt ggantntccn ggtcnggngt ccnattncct 360
tgnaacngtt ccacacntna tgacaattaa ttgtttcctg tgtaatttgt ccccggactt 420
ntggattctt gngancaggg cctntgtttc atggaagcaa actcccttaa ntatttacca 480
ggttgattga ttaagaaagt antcatgntt gggaaaccca cntgttttnt tcccaggatg 540
gaancccagg attttggaac tgcagaggct tcagggtctg ggaagcggag gcaggcaaag 600
aatggagtgc actgtccttt tgcaatatgg ggtttgcctg cctgctggct cctctcntgc 660
tntctcagat ggtgactgag gctacttcag caggactagg aataatcatg tccaggtggc 720
tgcccttccg agcagaaagg gacagacgtg gggcgatgaa gttgctatcg ttttttttt 780
tttctgcaca gactgcaaag tgtgcagagg gagggaggct gtgcaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaccga ggacgcagaa gttagactgc tgacccattt ggtgcatgtg 900
tgcccatgga gggaggggac cttctcaaaa gggttcacgc agcangcatt gaaagtnccc 960
cacntgtagg gncgcaagca actgagat 988

<210> 55
<211> 665
<212> DNA
<213> Rattus norvegicus

<400> 55
gaaaaagatt caggaanctt attttttntcg gttcgacttc agtnggggaa tgggcggana 60
catttcacac ggatttgtaa anacngtnac ngaaacttgg nggttcgtag atccactttt 120
ttnagacctg agagtagttt ttaaaatatt tnaattaaag gtttcctgca cccacttttt 180
tttttatccc taacttttca tccagtatgg tttttcaata tcacanttta atctaggact 240
ccttgcttaa agcaattaca agttaaatta aaagtaagag atggctnata gctctcatta 300
ctgggatgca ggtgtgaaac aagtgatttg tgtagaagct ggcaggatgg gtataaacaa 360
gaacacgtgc ccagaggatg tattgaaagt tggatttaag tctctgagta gtttatgcta 420
ggcggtagca ttgaacaaga tgaantctct gntcatagag gtagaaactn cccagattct 480
gaggaagtgt gagggagagc attagatgtt actgttgggg atttgggaag gccaggaaac 540
gttactccat gcccaaggag ggtaggagaa aggtttgggc ttagctttga ggacggaggg 600
aactggtggg tggatatgag gatggttatg ctaaaagcag agtggttttc aactattgtt 660
cttct 665

<210> 56
<211> 857

<212> DNA
<213> Rattus norvegicus

<400> 56
aaaaaaagaa aggaaagggg agananaaaa annangngan aaaanagana ganagaggna 60
agaggaagng agggngaaaa gagaggagan aaanaagagg aaggagaann gaggaaaang 120
aaaggaacaa aaganaagng anggaagana aagggagaaa aaanaagagg gagaaangga 180
ggagggaaan agagaanaga gggggagaga anncagagaa nagaanngag aaaaggngga 240
gacnaanana gagggaagaa aagngaggag aagagagggg agaanaaant tgaagaagaa 300
gaagangaga agangagnag aggaaganga ggggaagaag aagaggngga ggagaagaag 360
aggagaggag gaggaaggag aaggaggagg aagagaagga ggaggaagag gagaggagaa 420
ggaggaggat actanggagg ttgtttcaat aaaagagngg gatntaagat taananaagn 480
aataatgccg gtttntatct gttcgggggg ggtccttgtt ctccaaacac agannggggc 540
cagtttntca aaattnaant gngaagattt cttggntnga gagcagntca gattnantng 600
nattnttttc tagttttnaa cacaancttt gtgntaacaa agagnganga ttcnaggana 660
actcgntttt ntttgggagg agactttgtt cctttcnatg aagatgcagg acgnggaaga 720
cgcagggtgt gaacaggaca cagnnacgct tnngtntntg tcngcntcag cngcgtggga 780
atgagtcaga gcagcacggg gaggtgcctg gatntaagct ttctggtagg gagaacagag 840
tgcaggcngc ggcccag 857

<210> 57
<211> 902
<212> DNA
<213> Rattus norvegicus

<400> 57
aaagggggng ggaagaanga aaagggnaaa cnttngtttg gaagccnnca nnaaagnaan 60
gncgaattta anaagggggt agggaaaaaa aaaacanaat attccntcct tagccatnaa 120
ccgaacttcc ngcaaggaaa aaaaatttgg ngggngtaaa gggcaccncn tcccacaaaa 180
ttttgntaan tttgggcgca aattcangca ggntttngtt ggaaaggngn ananaccaaa 240
gggatttngg ggatttnaaa atcngngttt nnggcaggnn atccngaagt tngaatcgga 300
cgncnaccct ttatttnagc agttatttan gggaacatgg gagggnacca tttcaaacca 360
nggatcgggc cnggagtntg agtgttcagc ccacngcctt cnaacantac cgggataagt 420
ttttccctgn gccagagacc catccangtt ccagcaaaag gntggtcatc tngggcnagc 480
tccnngagtc atcnnggttt tctcccagcc nggggcgaat ggtcgaaggc aggttntttt 540
tgtctccagc ttgttcccna ccgngggagc ctgtcaaggc tgcacagnac cagantagtg 600
gtcatntcng gctagctccn ttagctccnt gtccagggga cttcctggca ctggattagt 660
ggnggactca ggcttgcttt tttttcagga gaggttagat tactaatcat tcagatgttc 720
ataagtcaga acactgagca aagcaatagn ttctcctcca cntactgant cacacgtgca 780
caacagccac acccgcaatg cttntaggag caggtccagn gnacttttgt tttaactatt 840
tntggctctt tattaatcag cacataaata cgcttcgttt ctccttttttc aatatgnatg 900
tg 902

<210> 58
<211> 852
<212> DNA
<213> Rattus norvegicus

<400> 58
acagaggggg gggggggngtg gaattttngg naggangttn tnggaaggcc nctaaaaaag 60
aaatgttccc agaccaaaag gggggggggna gtnnaattca nggatcctna ngaggnggaa 120
atttttnnnn tattnaggat caggataaat angaaaangg gnanattttn nnnangnggg 180
ttttttttttt ttttttttttc tttttnngng gnnnnnannan annnnnaaat ggcgncgggc 240
atggntaatg gggaanttgg gganaattac agagatttnt ttttcccatg ggnttccagg 300
atgaattcag ntaccaacca ggttggtacc agcattttaa cattcgagtt agacatcaat 360
ggttaggtcg ggagtgagag gttcggggcc ngacatatat tcntggtgaa cccagtgcac 420
cttntggttt ntacaaggag cttgaggtag tcgcccacca gtagctgtca ggcaggtggc 480
ttaagttcag aacggnttcg tggaacccga gaagcagaaa aagacataag ttntgcngct 540
tcanaatcca ctgntgaata cananatctc ggccaaagaa gcacagccag tctttccgtt 600
nacangaggc cgggagcaac aantccacag ccagcccaag ganatacaaa ggacttgggt 660
cagttctgna gcagttggag tcagagatgg ggccctcaaa gtcccagcag tgaagggcat 720
ggtctccagc nnacagtgga acctttaaga ggtggggact tgtaggagga gttagataat 780
tggggtgtgg ctttgtcccc nacntcgttc tttccctctt tatggccttg atgtggacaa 840
gattgtttct gc 852

<210> 59
<211> 884
<212> DNA
<213> Rattus norvegicus

<400> 59
aaaaaaaatt nttttccna ggnaaataac ccgngcttaa ccgggcgggg gagatcaatt 60
ntttgtngtt gtttcctcng aggcggagng tcaaaanaga acacnnctgg naaaccgccc 120
ttaaaanaca aaaatttgan ggggnnggng ngttacaaaa agacaggatg ttttccgagt 180
cggattcaat cccaccacaa catggggttc acaccatngt aaggaatcgn tgcctttttg 240
ggggtatcct agggggtana nttccaaata nngataanaa ttttttaaa aatttaattg 300
tanatattta ttanataatt taataaataa tatttggana nantnatgtt ctngcgcctt 360
gnggactggt agtttttttnt ccnnattnna actttcccag nactnggtag cctatgtgnt 420
tatgcaaccc nttagaagct gccttcanta ttnaactcat actgtttctc gataatcngg 480
ggagtagctc cagttngcta tgaagctgcg gaaaggtagg cggacatccc aggcttagac 540
agagttcagg ttatttggaa ctttnnaaca gaagtgtgtt cntgcacggc agcaagacna 600
tntgggtccc gtagttccgg tcgccaggag tagtgtattg cttaggacca ttctgggtgg 660
aatgcatctg gtgggtctta aannatgtca ggcagggcct ggcaccaggg tctggcggga 720
agcctcacat accgttntaa tgacttcatc tgcttagaat ttgtggggaa acgatgcaga 780
aaaatctaac cagggatgtt tctgggccag tcatgttggg gatgcctcag tcatgtaaaa 840
ttgagctccc cctggagcac accttaaaac atcttctgtt taat 884

<210> 60
<211> 955
<212> DNA
<213> Rattus norvegicus

<400> 60
cccntggaaa accnaanana atangnnnan anaaanactc cncccattga gggaacnttt 60
tagggnttcc nnntttcccc gganccgcca aatgngacac caaaannngac cgnantcttt 120
ggnngttgct tctcttggan cgcnttttgt tcgaccgggg tgactaaggn catgtngggg 180
acgantaatt gtttccgggg gcngntcggc accttccnan gngngngngg tttggttctg 240
gaagnccgaa nnggcatgtn ttaagatttg ccnatccatt tagggttcgt tcaacgcctt 300
atctttngag tttntggagt ttgggtgggg aggggagatt tagtggagga gtaaattttt 360
agtagggaga gagggaaggg agatagaccc ggagacagag aagggaggga ggaagggagg 420
gattatcctg taggatgtga gcccagacnt gtctgtggtn tctttccatg acacaagaga 480
ctttntgctt gtccctagaa tgcttcattt tntagtgtct caaacttaaa gggctagtgt 540
aaagttagac tgtgaacann tngtaaagac aggtgacagg aatgtntgtc agctgggccc 600
nttatatgcc acggcagagt ggtacgtgat gccccccacat gttatgtgga agttntcatg 660
cagggcttca gaacacagta gatggagatt gtgaaaatct gttgttnact taagagactg 720
gccccaagga tccatgtgat gntacttctg ttgcttgtgc tttaaaatct tatgtgatgt 780
tttgcagact ccnttcggga ccccagcaca cagctgagag tctgccctgc tggcactgct 840
gcctgtctgc tgaaggggaa cccaggcatt tgatgttggc cggcccaagg aggggctgaa 900
gctantgagc aaggacagtg atagacccac acagnagttt gcaagtaaat gagnc 955

<210> 61
<211> 1107
<212> DNA
<213> Rattus norvegicus

<400> 61
caaannncaa nggtncnncn ggnccattgg gggggttaa naatggaggg gnttngggtt 60
ttaaannttc ccccnggntt caaggaaatg gggcttttga ttggcaagga aggaatgggg 120
nttcccntga ancctcctga ggggccaaan attgggggg gttnacaccc ccggggaaac 180
ccttcttgac cccnagaaan gcngtttagn ttcccnccca tgggntccct taccctgggn 240
ttttttgna cagccnagca gccctggttt tccttgtttc cttgggcncc gaaaatttga 300
atccagtgca ttccaccatt gagccngcag aggttgatng gcaggaangg tttaaccctt 360
ngaccaggag tgacaaattt ngngggacnc cccagtgnga gctcacaaca ngtngacatt 420
gaggcnccaa aggattgttg aggggatgga ttgtgtcgca gtctggttgc ctttatagtg 480
ccagcatcgt tgagccccgc ccagggagtg ttggcacgcc caaaccccna cccagcgctt 540
gaggcaaggc aaacacactt cccagcccct taanttncna cgcctttgtt gcttggacgt 600
cccggantgg gagcaggatg aaggatttta gtgcaggaga agaccagtgc aagccggaga 660
catngagttc cctntaattc ggtgttcagt ttgccnttnt ggcacgtgac tcgtaactct 720
ggtatgtgtg ctgaaccntc taccagccag agatcagtgt ccttaaagtt cgaatcagtg 780

tgagggggac tgggaacaat actgatgctg ttgccctcta gtggcaaggt caactccaag 840
cgagagggga agcagtcagt ctaccgcatc ctctaagata gtggttctcg acctctctaa 900
tactgcggat taatacattc ttcatgttgt ggtgacgctc caaccataaa gtgattttcg 960
ttgctgcttc ataactatat ttttgctact gttatgaatc gtgacataaa tactgtgttt 1020
tcagatggtc tcaggcaatt cctgtgaaag gggtctccca caggtttgaa agtntcccac 1080
ctgtaggtgg gccaagctaa atgagat 1107

<210> 62
<211> 92
<212> DNA
<213> Rattus norvegicus

<400> 62
atggggcatc ttgtaacagg aggcctggat tgagtactgt aactgagntc ttgaaagact 60
ttacctgtag gtttggncng cttgaaagag at 92

<210> 63
<211> 209
<212> DNA
<213> Rattus norvegicus

<400> 63
aattccagcc catcctgaga cacacagtga ccctgtctca caaaaccagg gaaaagccag 60
gtgcggagtc tcacgccttt aatctcagtc tccggaaaca gaggcagngg gatctctgtg 120
agttcccagg cgaganttct ttgtacaggg nnccctctga annenectga aagatttcac 180
ctgtaggttg ggccnagctt aaaagagat 209

<210> 64
<211> 97
<212> DNA
<213> Rattus norvegicus

<400> 64
acagagaaac agtgtttccg ttccttaaaa cgttgctcta tcttgaataa caagcttatt 60
acatgcgaat cgtattggga acctactgaa ttccgat 97

<210> 65
<211> 1047
<212> DNA
<213> Rattus norvegicus

<400> 65
caaggtgaat tccanttggn gtttnnaaat ngtttttnaa aaanaaattt tntttggnna 60
ttgccttnaa ngtttgggnc ctgaattcaa aattccaant tacccaaaat ttcatgttcc 120
atccanaatt naattccgga aatttacaat aatttgaatt ntagttttcc caattntaat 180
ntcagtagtt tgnntttgtg tgcccenatt ntaanatcag acccgtccaa tcacccaatt 240
gnttttttnaa attgaatngt tttccentgt accttccttg caangttgct ttaaattnga 300
atttcagaat ccccattgaa aagaatccgg gnnaaagcaa caccnttaag gaccccagga 360
aaccagaaat tngnagaaan ttggacgnag gganttnaca ttnttnccgc canaggatgn 420
ttgggntaaa aaccgcgttt gcgcaaggct cntgtgttgg cctcttttcc gccgggggcg 480
ctgtggataa tctctgggtc agtcgaaccg ttttaccatc catttcgtta ctccgagaga 540
ctggcgcncn gcgggttcct ccaagatggc ggcgcagagg aggagcttgc tccagagtgt 600
gaggaaaccg acccgctctc tgggctggga gggttgggag ctcgggtgtg tcntcgggtg 660
cagaagctgt tgtctttaga tggcagagtg cggacccctc gccccagagg ccntagggtg 720
cttgcagcgc gcgcaagacc ctttccagtc tagagcctcg cctagttctg cgcgtgcgcg 780
ccacagagcc gggcctctga gggtcaaggg cgccggggtc ctgcggaatg ggagcgtcct 840
caagccggaa agggacatgg cgccgccgag cgggccatcc ggagggcgga cacgactaat 900
aataaatcgc ccccccgccc ccgcttgtgt aaggcgcgct gtatctctgg cattgtgtgg 960
accgcctcac attcataagc ttcgtcagca gcagtagaga atggcttgaa agacnttnac 1020
ctgtaggttt ggcnagcttt aaaagat 1047

<210> 66
<211> 1063
<212> DNA

<213> Rattus norvegicus

<400> 66

catnggagtt cccaatggnt tccntnaann ggttntnttc aggttgggca ncntttagga 60
attgaaaatn ttnnttggga ttccccctaga atttgatccc attngggaaa ttttttattt 120
ccngaacagt ccantnttaa aattgggcct nttgggatta acggattcca aggttgcaac 180
anattggcaa gtttnnggac aggaggtttc aantggntaa agtggataaa tngtgaattt 240
tggagangga attgacttgg ttgggggcca aaantaggta gcattttgcc cggagggttg 300
attgcattct gttttgtgta aanatgaagn tacttgacag ctttgagata agaaggagac 360
ntaatttgct aaacatttta agtgttctat tctgccggag ttttggagag ggtatatgcc 420
ggtcaggaag ggagccagaa gccagtaaca ttgcaagtat ttcaacatgg aaagctttag 480
gttatctctt gtgcatctta tgctcggnta atgatgtaan ccaattgtaa ttctgggcac 540
agctttccca tgtgtctttg gaacagtctg ggtttgtggt tntaaaacaa catttgtatn 600
tagttggagg cttatctaag gagcttctta gcatttgggt tgtaatttat tttagtattg 660
tttcagctac ccattgctac atagtaaatg tacaaaaatt tagtggatta aaataatgat 720
gtttggtttg ctcacgaatc tttcatgttg gctgaagttg ccatttctgc ttctctctgc 780
tgaacttggc atcaactgag agggttggaa tcatctgaag atggggttag ccacacctcg 840
cagttgatat tggctgtcag ttggaacctc agctggggtc agcatgcata agtaagcatg 900
tgtcactttt ccaggtttct gtcttacagc atggtggctt ggttctgaag ggccatcact 960
ctaatggtgg ctgggttccc agcgagaacc agtgganccc aaggatagct tttggtgact 1020
gaaagacttt aacctgtagg ttggggccna gctanaaaga gat 1063

<210> 67
<211> 815
<212> DNA
<213> Rattus norvegicus

<400> 67

ccccccccccc aaaccttcct tccaaaccct tnggggtggg gaaaacattg ggcaangggg 60
caaattnana ccccttggaa tngttngccn ggnaaagttn cngttcccca aaagccaaag 120
ggggggggtt tccaaanatt ccnggggttt tttnnggggg taaagggntt naaaggtnaa 180
aaaatgttcc cggngccccc anacttccaa aggttttccc ttnnaaaatt ccnggccttc 240
cgggggnccn tntgtncccc ccnttccccn aaatnncntt nngaaaaggg ttnaanantg 300
ttnaaaancc cnaangttaa angggnnnat nnaaanggtt tccctnncnn ggggngggna 360
aaaaggtttc gcgcgganac cnntgatgcc caggttcagt ttccccggag cttggggcca 420
gacccgcggc gcgccntggg tgtggcggga gcgcgcgggc ttgcgcccgg acggcttctc 480
cccgcccccg actcccctcc gcggcggcgg gagtaggttc ttccggctcc ggtctgaggc 540
ggtgcctggc accttctgac caggatccgc gggtccccgt gctgtggtcc cgggaggcac 600
gcggggcctg cctgctatag cgggtttgca gggcgagcct ccctggagcg gtagggtcgg 660
tttgggtgtt gcacgctcgg tttgacgttt taatccggag gagttgtggg gttcctcgaa 720
tctcaaactg ccttcttccc ttttgagact tgaaaatacc cgaagcctgc cttgtactga 780
aagacnttac ctgtaggttt ggcagcttaa aagat 815

<210> 68
<211> 1034
<212> DNA
<213> Rattus norvegicus

<400> 68

aaaaaanagg tttccccngg angtccctng gggntcnttt tnngancntn cgttangggg 60
ncctncncct tttccccttg ggggaggggg nttttttaaag cnannnntng gtttcnnntn 120
gggttaagtn tttncccaaa agttggtttt tnnaaaaanc ccctttnncc cggacgtttn 180
ccttnncngg anaatatntt ttgggccaaa ccngttagnc gggatttccc aattgcgncn 240
cccttgnaaa cgggttnccg gggggngtnt tnaggggttg aacngggttt taaangtgcc 300
aaaacgggta aattggaggc attttngnaa tggcttttgt tnaaccnntc ccttgggaaa 360
gggttgtagt tttnaacggg naaacaaacc ccgtngtagc gggtgttttt tntttnccaa 420
gcgccggnta agccncggaa aaaaaggatn ccnggagacc ttgnattttn nnnggggttt 480
nacgcnatnt tttttggaat tttgggggga taanaatttt nnaccngaat ttttngnggc 540
cncncnnngg gnnaaaaatc tnannannat tnggntattg aacatttctt ccntgcatat 600
ttatngangt atgacccttt aaacaattaa gtacttggct tcagtgggag agaaagtgct 660
tagcctcaaa aagacttgaa gtgcccaggg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 720
tatgtgtgtg tgtgtgtgtt tgtgtgtgtg taacccagag gggtgcccac ttgctcaaaa 780
gagaaggggc agaggaatat gagggaagga ttgtgggagg gagtgaccag tagggaaaca 840
gtgagtgtga tgtaaagtga ataagtaaaa aaattaaatt aaattaaaag taaataaagt 900

gtctacaaag tcaattactc ctttcccttc ctccaccctt tcttctaata ttaggcaaaa 960
acaaacncaa aaacanaaac aancaaactg aaagactnta acctgtaggt tggncagctt 1020
gaaagagatn tttc 1034

<210> 69
<211> 186
<212> DNA
<213> Rattus norvegicus

<400> 69
agaccacctg ggtggaaact cctattctta caccaagctg cctctgtatc cacagatacc 60
aagaagtagc caccgttgtt ttacttaact catggtccac ggggtgagct gaggtctcct 120
tcctgagcaa gatggaaatt ttacttggtc tgttaactag cgtgcattga atggangaca 180
tatgat 186

<210> 70
<211> 1028
<212> DNA
<213> Rattus norvegicus

<400> 70
aaagggaacn ttttaagcnt ttnnaattnn gttnccnaan aaggatttgc atttaccacc 60
cttaaattta ggnatttttg aatnatttca acccnttgca ggcagtttgt nccatgttnt 120
gggaaagttt taacaggatg gttatttnga caaaacaggt tttttcagac catttgtgna 180
ntatcttgaa atttcccagt ttttnaattn tattntaang atattntagt tnnaattnna 240
tgacttcaat ttgtatanac aggttcttaa caaacagtgt gtaactgagt accttgcccc 300
agcatttaag gttacacaca tcatacgaac actgaagaaa atgtctgntc tttaattttc 360
ccctttttctc tgtgtaattt ccttcaggac tcctttgtcc tgagtggtca ggcccttgat 420
aagatggttn atcttatttc tgtttgccca tgtgttgtaa tcntgcctga cagttcttgc 480
ttaatgcaga aaccaagcaa aggttcagtt tgtactggcn tccctttnta gttatctgac 540
agggatcagt tttcaagctg tagccgtggt cctcagagag acctctgccc atatacagca 600
gcagtctttc tcatcccagc cctgggagtt ctagcaaaga tttgactttc tgagttgttc 660
agggtcagag accatgtatc aagcctcggc tctatttctt gagtaaaatg ggcatctggc 720
acatctactt agatgcagaa atagtcagaa tgaagtgaag atgtaggagg agtcgtgtgg 780
agaaataggc tctctgaaag gaggcttctt cttcacttta taagctgtag tgtcatccct 840
tcccaagtgg ctctgaaact gtgttagaag acatggcctc cccagagctt ggggaaacct 900
taaataaggc tgctgctcag atgtcagcac attttacgct ttactggaag acttctgctt 960
cctcttccta tttctccaaa tncanntgaa agacttgtac ctgtaggttt gggccagctg 1020
aaaagatc 1028

<210> 71
<211> 1034
<212> DNA
<213> Rattus norvegicus

<400> 71
aaaaaanagg tttccccngg angtccctng ggggntcnttt tnngancntn cgttangggg 60
ncctncncct tttccccttg ggggagggggg nttttttaaag cnannnntng gtttcnnntn 120
gggttaagtn tttncccaaa agttggtttt tnnaaaaanc ccctttnncc cggacgtttn 180
ccttnncngg anaatatntt ttgggccaaa ecngttagnc gggatttccc aattgcgncn 240
cccttgnaaa cgggttnccg gggggngtnt tnaggggttg aacngggttt taaangtgcc 300
aaaacgggta aattggaggc attttngnaa tggcttttgt tnaaccnntc ccttgggaaa 360
gggttgtagt tttnaacggg naaacaaacc ccgtngtagc gggtgttttt tntttnccaa 420
gcgccggnta agccncggaa aaaaaggatn ccnggagacc ttgnattttn nnnggggttt 480
nacgcnatnt tttttggaat ttcgggggga taanaatttt nnaccngaat ttttngnggc 540
cncncnnngg gnnaaaaatc thannannat tnggntattg aacatttctt ccntgcatat 600
ttatngangt atgacccttt aaacaattaa gtacttggct tcagtgggag agaaagtgct 660
tagcctcaaa aagacttgaa gtgcccaggg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 720
tatgtgtgtg tgtgtgtgtt tgtgtgtgtg taacccagag gggtgcccac ttgctcaaaa 780
gagaaggggc agaggaatat gagggaagga ttgtgggagg gagtgaccag tagggaaaca 840
gtgagtgtga tgtaaagtga ataagtaaaa aaattaaatt aaattaaaag taaataaagt 900
gtctacaaag tcaattactc ctttcccttc ctccaccctt tcttctaata ttaggcaaaa 960
acaaacncaa aaacanaaac aancaaactg aaagactnta acctgtaggt tggncagctt 1020
gaaagagatn tttc 1034

<210> 72
<211> 824
<212> DNA
<213> Rattus norvegicus

<400> 72
ggggggntttt cnnanntanc aaaaantngn tntancanng antnnttgag ntgttgaagn 60
aangnggaaa angttttgaa atcantgtaa tgaggttcca aaaattgagc aggaaattgg 120
atgntgtcag gagaaacccn ttcagtnttg tgcaattggt tcgccagcag ttaggaccgn 180
ttccccatca cttgtgccag cggacatcca gntattgagc cntgnatcat ttatggnaca 240
aattaggaac acacaacaga gatccgcttt ntgactgcca tgttcgccaa actcaattgg 300
gggaagtaat cctccagacc gttccgtttg cacgtntagg aagccacagt gaaaacacaa 360
aattcgtgga ggcgactcta accaggaagc ctaatcccnt agattcccgg gacactgggg 420
caggcgtcct aaaaacagct ttgtggggct tcagtcctcc gtgcggttcc agtccgggtc 480
ttggggatcg ccctcgcggg gaatgtccgg gactccggtc ggtatctttt tggcctggga 540
atttccagcg tgtggaaaaa gtccacaaac ttagtcctca ctgcccgcct cgcctcctcc 600
ggcccttctc ggtgcccacg caccccccga tcgaacccga ggatgagcat agggtgtatt 660
ttaggcgtgc tgggcttccc cgcccccctc tgcccactta gctggcaaga agaaagccag 720
cactataaag gaggccaggg ccaaggactg gcctcctctt gctcacgagg tcagacgcga 780
gctctgaaag acttcacctg taggtttggc aagctgaaga gatc 824

<210> 73
<211> 774
<212> DNA
<213> Rattus norvegicus

<400> 73
gaggggganna ncancaggac caancngata agggggtcaa caacntgngt tccncccntt 60
gagngggaaa tgagcacgng gcantccaac cgntcaaggt cccgnttcgg acggtcacac 120
antaggttnt catntggatt gccngngttc cngttggcat ccgggaaaan tgagactgtg 180
tcggtaccag agntaggatg gccntccttc ccngccccgg ccttnttggc gccttgcgat 240
ccttcccgaa ccggcccntg gcgtctccgc cttnggcact tgcacatntg gcggcccagg 300
atggcgcttc cgggatggcg ccagcgcgcg tacgtcatca cggagcgtcc atgtgttcct 360
tctgtccaag cgcntaggag cctgcgcgta ctcccagcaa ggaagatgta ggaccaaaat 420
gtagaagcac ttaacatgaa cgtcaaaacg atgaccaatc acagggcgat atatgcgcat 480
gcgcaatgtt ccaatcatgg ctcataagca atccggaagt ggccaattaa atatactatt 540
tactaatcca gggttacaca gtgaaaccct gtctcgaaaa ataaacacag ggctggagag 600
atggctcact gattaagaac actgactgct cttccagaag tcttgagttc aattccgagc 660
aagcacatgg tggctcacaa ccatctgtaa cagattctgg tttatgtnga gacaactaca 720
gtgtactcgt attgaaagnt ncccacctgt aggttnggca agctaaanga gatc 774

<210> 74
<211> 248
<212> DNA
<213> Rattus norvegicus

<400> 74
tgacacttca tggaaactga gaccgggagc ttccaccaga aggcactgcc cagtggagaa 60
aaccgacttc tttttgttgt tgttctgatg ttttgttttt gagataaagg tctcactgtg 120
tagctcaggc tggttttgaa atcaggatcc tgaccctcag gaatgttaaa gtgcctaaaa 180
gtggngacaa attatttttac gtgcctttga aagacttcac ctgtaggttn ggcnagctag 240
aagagatc 248

<210> 75
<211> 833
<212> DNA
<213> Rattus norvegicus

<400> 75
aanggggtta tnntggagan atnctaagnt cccaaagcaa nttaggattg ctnccnnnng 60
aattnttaag cntttgcatt aagtantaat gccaaaatga ccccaanata tngntccttg 120
antgtnntaa aaangaggat cttcnttgnc catanacgcc ntatatgaaa gcaactgaac 180
aagatttaaa attggacagg tcacaancgg gcgtgtgcct ttaatcccag cactcgntgg 240
ctgatagaag cagatgcatn tatgtgggtt tgaggacagn tngnttnacg tagagagttc 300

ntatatcagt agggctttgt agagaccnta tctcaaaaaa caaaagcaaa acaacagaga 360
aaaaatcaat tgaccatgtc ccaattacct ttatttatct gtaacctatc cttagttata 420
ctcgtaatct ttttctctct tcagtttgcg tacgggacag cagacctact cacaacccaa 480
gctntaaatg atgagcgtac tcagccaggg agcttcaccc cacttaaccc cataagatgg 540
cggcagcgcc tcttcaccca ctcagggctg aagcacgcat cacgtgatgc gctccagctc 600
tcgccgcggt ggctgacggg aggtggagat agaacgaggg tgtcggccat tttgtgtctg 660
tttcctgccg gacgtggtgg tggcggttgg ttccgagaac tgtgcgagtc tcttctctct 720
ttttttttt ttgtttttcg ttttcccccc agcttctttt cgcctctntt ctgcatagtc 780
tgtagtgcgc agttgaaaga ttccacctgt aggttgggca agctaaaaga gat 833

<210> 76
<211> 880
<212> DNA
<213> Rattus norvegicus

<400> 76
aanatggntt ggttntaaag gttaaaattg gggcaaaatt tttccgcccg ggtccttaaa 60
ccggattaac tccaaggcca aaattccgag ggggaatcaa caacaaggac ccaaccggat 120
taaggcgggt tcaaacaaac ttggatttcc ngccctttgg ggcgggggaa atgggcacgg 180
gngcattcca agcngntcaa ggttccggct tgcggacggt taacacaant aggtttctca 240
tctagattgg ccngcgttgc ggttgagcat ccgggaaaat tgagattgtg tcggtaccag 300
aggtaggatg ggccttcctt cccngccccg gcttcctggc gccttggnat ccttcccgaa 360
ccggcccttg ggtctccggc cttgggcact tgcacatctg gcggccagga tgcgcttccg 420
ggatggcgcc agcgcgcgta cgtcatcacg gagcgtccat gtgttcnttc tgtccaagcg 480
cttaggagcc tgcgcgtact cccagcaagg aagatgtagg accaaaatgt agaagcactt 540
aacatgaacg tcaaaacgat gaccaatcac agggcgatat atgcgcatgc gcaatgttcc 600
aatcatggct cataagcaat ccggaagtgg ccaattaaat atactattta ctaatccagg 660
gttacacagt gaaaccctgt ctcgaaaaat aaacacaggg ctggagagat ggctcactga 720
ttaagaacac tgactgctct tccagaagtc ttgagttcaa ttccgagcaa gcacatggtg 780
gctcacaacc atctgtaaca gattctggtt tatctggnnt cnactacagt gtannggcat 840
tgaaagatnn tacctgtagg ttggncagct aaaaaggatc 880

<210> 77
<211> 864
<212> DNA
<213> Rattus norvegicus

<400> 77
aattttaant tgttggnata anggcttgnc catatccttc ctnttgtttg ccctaagtaa 60
cagccaattg ggggagaant tttntgtcag tatcatattt ttcgttaggg aacggaggcn 120
caggaantga tccntntggg ttacagtcat tttagcatag gntgacagtt ggngaccaan 180
tnatcttgcc gtgttggaag gagaggggan taaggntgaa gctcttgagt ccnttgangc 240
ccttggaatc gggaantccc ttaaaccaac ccctttgcc gttgaattgc accaaccaga 300
ttcttccagt ctgcttgagg angacaggac ttcattgctn tggagagggg caggagggtt 360
gggagttgac ntnacagggc tcagggattc ttttagaagg gtccaggttc atggcttccc 420
ccccccccag ccaggtcaga cactaaagtg tcttaagccc ctccatactt gccgctcccc 480
cacnttggat gaagccggcc attaggcagg gaccgtctct gggagaggcc aagccctctg 540
gctcacttgt ggatttcctt taagcaagac ttcctctctg cttccaggac tcctgtcaaa 600
caagagggtc cctggcttag agtttgggag ctgcaggcag aacagacatt ccccgatgac 660
tcacaagcct ggaactctgt gggccagcag gaatggggat ggctttctgg tcagtcaggg 720
tcaactggga cactcactct gagacaggga ggcaagggag aaacaggtca gaggtagaga 780
gagctcagtc ccagggactc acgttgaggt ccctaaggtg cgctagggag aggnttttac 840
attcggttng gcaagctaaa agag 864

<210> 78
<211> 874
<212> DNA
<213> Rattus norvegicus

<400> 78
gaggttggac cacaaggagn ttggnggaaa atnnaaaagt caacctatca gggtgtcttt 60
tagtttggaa cagaggcttg ggcagaaata tgggcaagta ttaggaaagt acaaggggaa 120
atgttgtcaa cgcgnttgtt ttcccagttg ttgnactgat cccnccagga tgttttccca 180
cntatgntat ggaaccntct ctttcaggaa gccattntna ncntatggnt tgcaacccct 240

ttggggtcgc aacagcaggt attaacatta ggattcataa cgntagcaaa atnacagtta 300
tggagtagca atgaaataac tctatgnttg ggagggtcac cacaacanga gggacggtat 360
cacaggnttt tagcattagg aaggttgagg accttatttc agagtgtcnt gacaatcntt 420
cntgggacca cttgacttna tctggagccc tttccctcac gctcntactc cttaccatct 480
ctgcacagct ctntgaggct tagagcggtc tttcttcata gctttccntt ttccttcagg 540
tatgcagtca catcttgctt tagaccccag ggacattccg tgtctgactc actgcacaaa 600
atagtttccc acatatgagt cctcaaccgc cccacatcac gagacggaca agaccggaga 660
cgccatacat tctgtatttg ccctccttcc tcatttaaat aggaatttgt tgctgtttaa 720
tttttcatta tttgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 780
tgcgcgcgca cgttaatatg ccgctcagaa tagtctaaaa ctgctgggct tgaaagacnt 840
ncacctgtag gtttgggcna gctaaaagag tatc 874

<210> 79
<211> 886
<212> DNA
<213> Rattus norvegicus

<400> 79
atttttnaat tgcagcaatc ctcctgcctt ttttcttggt tgttaantca caggatnttt 60
gcacacttga ggttgaantt gcagcaatcc tcctgctttt gtttnttggg cgcttggatt 120
atagtatgtg cataacactt gagcagtaac tgtttttcttc aatctcattt atctcagaag 180
ttccccttgn tgattcagac gttattaatt aggcaaacca atgttgattg tcattaccca 240
tgagttgctt ggcttgtgag atgcatactg tgtgttcgtg aggcacntac tgtgaggcat 300
gtgcccgtga ggttcatggc tgtgaggtgt gtgcccgtga ggttcatggc tttctngacc 360
acngggagta tgaaggagag gaatcctacg tttgatgcca gccagggtta tacagcaaga 420
tcccgtctca aaacaaaatg aagaagtaga gagattagtg ttaataagca actgaggcct 480
tgaagggctg aggtcaggcg gtgccctggt gcacacacag aagcgtgcca gtgacgtcag 540
acagactcag ccctgtgtca gacaggccgg agggtgactg gccatgtggc gtgattggac 600
acattcccaa aaaaggaact cgatggaaga ggctcctcnt gctccagaca gggcggtggt 660
tatgtgactt gtgcgagatt agtctcatac cctattgcta gcctgtgcct ggtaccacgg 720
acatggtaca atccagggag gagccgtaag cactacaggg gagccatcct gaatcccagc 780
aagtccaact tctgtttttt cttccttccc cgcaacatta ggaatgactt ctaagagngc 840
tgttgaaaga ctttcacctg taggttgggc aagcttaaaa gaggat 886

<210> 80
<211> 865
<212> DNA
<213> Rattus norvegicus

<400> 80
tggaggtaaa agtcacaagn ttttcaaggg tttgagatga cagttcaacg tgagnattng 60
acaaggattg attcttgtnn acaggaaagn tccccatccc accaananac accgtgttca 120
ggcccantgc tcagagctcc gggcgccagc gaagggcaaa cggccactga ttggaaagnt 180
gcagtttaaa gacatgtccc aggaactggt anccttgtgt gactggactt agccttgcaa 240
ntctgtctga agcataacnt gntgctgtct ntgggcgagc atttatgtgc cccacttgag 300
acccatctca ggacacgcag gacacggtcc agtggagctt tccctccaga gagaggtgtt 360
agggnccatc agtgagcttc caaggacagg ggaccagaac ggtgaaaaca aaccagggct 420
gtgaaggaga gcagggcggg gggggggggga gggggggcgc tctntagaat agattgaacc 480
tgcagagctg cttgctacct gaagttgtca ccctttttacc cacccacntc atctgtctct 540
gcttgaccat ctcagcaagt gtcacctcgc tgccaggaca caagtttcct aaagcttatt 600
tcagtgtcag ccgctgggga gacacattca gggcatgggc gtcccccagc cctcggggag 660
aatgtgggag gtggcgatgt gggagggatt cgagagaaga gaatgcttaa gaaccatcca 720
gggaacctgt gcgtttgaag gtctgagtta cacacaggct gctcaggaag gagctagagc 780
tccaaatagg agctgtgatc aggctgtgtg tgtgtgcctg gtgaaagact ttnacctgta 840
ggtttgggcn agcttgaaaa gtatc 865

<210> 81
<211> 859
<212> DNA
<213> Rattus norvegicus

<400> 81
cangagcant ntgaancagg catttntgga agggctccng agaaaacacg tggaattnct 60
tgtctctggg actttagtnc cagcnaggan gatncagtga gggaacacac cgggcttttg 120

ttgtgcacgg gaggccaggc tcancnncct tgggagnttg acatccagca ggctatanac 180
agtgatccag gggacatgta cacatgggga actgnccagg cagagaaaga caagagaaaa 240
tctcaaanga tgaagacaga gangagtaat atggccagaa ngatacagtg cctcntgcat 300
aacccttgag tttaatttcc agggtcaact gtattttgaa agtataaatg aaagttcctg 360
aagtaataaa tttataggat gttagtatca cactgttcag aatagctcaa aaaatcctgc 420
cntgtcctct taagtatgtg aatcatcttt tactgcaacg tgtccacaat gtatatacta 480
catacccaaa agtcctcact gttatcccaa ttagtaggct ggctgccaat agttgtccat 540
acagagtgcc tgctgctgtg gccatccnta ctgtagtaaa cagtcatcca aagctcagga 600
gtgaggctat tgtagaaatg cacttcctgg gggccctact gtcagtgagc acctgagaga 660
gaaagggaca caggcccaag gtgggaggcc ttagataaag gcccatcatg ctcaggaaag 720
gatttntaca gatctcttag ggaagttaca atcaaattca tacctcacag cagagctcag 780
gagaagaatc cataaagnnt gaagacatgc ttgtngtgnc tgaaggacnn tacntgtagn 840
tngggccngc tgaaatttt 859

<210> 82
<211> 1021
<212> DNA
<213> Rattus norvegicus

<400> 82
caatngncaa aggtttggaa cccgngaaat ttnaaaagtt tgcgngantg gttgacnttc 60
cnggtgtnaa nggtttcccc gttcngattg nagggatcnc ttttatccct tttttnagnt 120
ttttttgag nggaattttg ggttcnaant gngttaccct taagtaaccc cattttgcan 180
ggcatggaaa atacctaaan tgggatngaa agttcanatn gaggtcagga anggntggaa 240
cagggtngac cggttngacc gttggacctt tgaganccat cagatntttc ccaggttncc 300
ccaaggactt gaaatgaccn tgtnccttat ttnaantacc caatcagttg gtttctcgct 360
tctgttcgcg cgtttttgtt cccggagttc aataaaggag cccacaaccc ntcantnggg 420
cgccagtcct ccgattgact gagtcgcccg ggtacccgtg tatccaataa accntcttgc 480
agttgcatcc gacttgtggt cttcgctgtt ccttgggagg gtctcctctg agtgattgac 540
tacccgtcag cgggggtctt tcaaactgca gttctcaagt aagctcaacc atccgagggt 600
cattctcaaa gccaagtcaa acttgggagc cctcactcct ggtggtcttt caaaagaccg 660
tgcattggat agtcagagac tctgcaggag cggattaagt ccaggcctgt ctccctgctt 720
tctgcctggg ttctaaagtc aagaaggcca gatggctcag atagttgaga cagtggctta 780
gctgattctc tggggatgca tttggtctgc ccaggaaacc ctggagagtt ttctacccaa 840
gatactaaag ttcaaacggc agcgcctgtc ggcagactca gcctatacaa agctggcctg 900
tatctgatgg gattntaagt ccctgggcag acccgggttt gtgggcctga agcttgagtt 960
ncaggagact tagtgggcca tgggattctt ttaggatccc gatatggnca aacttaaact 1020
g 1021

<210> 83
<211> 1013
<212> DNA
<213> Rattus norvegicus

<400> 83
ttttgagttt tctcngcccg nttgtgncng aaanncagcg ggggtntntc actgtgnntc 60
tcacatgtnc tcacacanat cnggggggacn ctcacancnn catctcacnt ntgnganctc 120
acactcgtgt gggntctttc aaaacantgt ncnntggata cncagacact cnncnagngn 180
ggtntatctn cacnngtgtc tcngngnttt nngcnngnnn tcnaanctca aaagcgncat 240
nnggcacata tntntgacac ngnggtatat nngnctctcn ggnganacat ttgntncgca 300
caaaaanccn tggagatttn tctacncaat annctanttt tcacaggnga gcncntgtnn 360
anacncncac cntanacaan tnnggnntgt ntcagaggng attttanctc nntggncana 420
cccgnttntg tgnnccaaan tnttgttttc caagacatat agtggnacat gnnactctnc 480
gatntccgat gagnananat gtgntcngac ntttacagcg natacacngt ggngcanntn 540
tcacagatat gtgtntatnt cnnacanaca aatntgcnng actcctctcg tgtataaatc 600
aatanacggg ngggttaaca tnnggccncn gttgnncagt natancgnga aacacactcn 660
caagggctnc aantttttnca nctatacacn cncncccgan gggncngngc acaaatgtgc 720
nccgaaattt tatncgccnc naacactctn aaattnntcc cgggacccta gatatatttn 780
tccncattna aaatttgcac attntttncc anttgcangg gnantcgggg gttcacccnc 840
cncnttggga aggggnntnt tnaacccggg ttcnaantta taggggggtt tanatcnccc 900
catttttna aaaagngttt accntgggcc ccntnttttn cnaaaaaatt tgnccccgnt 960
ttancnccgg ggttggggaa cncgaatttc ttngggngcc cccctnagnn ttt 1013

<210> 84

<211> 1002
<212> DNA
<213> Rattus norvegicus

<400> 84
aaananttna cacggattcc ttttcctcaa aaccaatggg ggaataaatg atgtngtagg 60
gttccccngt aatggatact aggttgaact tccangggga antattattt caataaggtt 120
ttagaggtcc cacttgtnat caggttattc tgttgctttg ggtcaagcaa acagccnatc 180
aggattgtga ttattngant aacccattta cctnacagcn gggaggaaan ccaangggag 240
gcttgaggaa acggcttgtg ggttcataaa ctctttgaat cataccttgg gtgattcaaa 300
tgctttttac taggctctcc tttcatagta cctctcttgt ggacaaggac ccagtccttt 360
gaaaagcatt gaaaactcaa accataccac tatcagtttc agctttaata taaattagct 420
ttctaagttc agctgaccac nttttcactg gaccttcact gatctcacag ggaagatata 480
ttttcaacaa ttacaaagac atttctgggt tggactatgc attcctttgg gccagattct 540
acatcctttt tttatgccag aatttttag cgttcctgta agattgtcag tttccctag 600
gaaatccata aagctttaaa tgccttctaa atagccaata ttttaatgag aaatgtagtc 660
actgatatct ctttgtattt aaaggttatt ttgaggggag ttgcttggtt ggttggttgg 720
ttggttggtt ggttggttag ttggttggtt ttggctttgg ttttctgtcc catggtaata 780
tgatacttat gtcatagatt agttaactca aatggtcttt tcaggtggca gtctggaaaa 840
caactaactt ggggggaaaa aggctgctcc atgttctata aaagctgtac atgtgatttt 900
ctctgcttta ccttttatac tcatttattn tgttatttgt gtatgaaagc cttccgtatg 960
aaagaccntt acctgtaggt ttggggngct agaaaagatc tc 1002

<210> 85
<211> 1031
<212> DNA
<213> Rattus norvegicus

<400> 85
caacnnccat nttttggaat ttgnggggta aaatttaaac cgattcnttt tccncaaacc 60
caantgggggg atatnnatgt atgtngtagg gtccccccngt aatggaatat ttaggttgaa 120
cttacaaggg aaatattatt ttcacaatgg tttagaggtt ccactgtnac aagtattctg 180
ttgctttggn ccangtcaaa cagcccatca ggatggtgat attagaatta accatttatc 240
caacagccag gagaaaancca aagggagctt gagaaacggc tgtgggttca taaaactctt 300
tgaatcatac cttggtgatt caaatgcttt ttattaggct ctccttcata gtacctctct 360
tgtggacaaa gaccccagtc ctttgaaagc attgaaactc aaaccatacc actatcagtt 420
tcagctttaa tataaattag ctttctaagt tcagctgacc acctttttcac tggaccttca 480
ctgatctcac agggaagata tattttcaac aattacaaag acatttctgg gttggactat 540
gcattccttt gggccagatt ctacatcctt tttttatgcc agaatttttt agcgttcctg 600
taagattgtc agtttcccct aggaaatcca taaagcttta aatgccttct aaatagccaa 660
tattttaatg agaaatgtag tcactgatat ctctttgtat ttaaaggtta ttttgagggg 720
agttgcttgg ttggttggtt ggttggttgg ttggttggtt agttggttgg ttttggcttt 780
ggttttctgt cccatggtaa tatgatactt atgtcataga ttagttaact caaatggtct 840
tttcaggtgg cagtctggaa aacaactaac ttgggggggaa aaaggctgct ccatgttcta 900
taaaagctgt acatgtgatt ttctctgctt tacctttttat actcatttat tttgttattt 960
gtgtatgaaa gcccttcncc tatgaaagac nttcactgta ggtttgggcn gctagaaagn 1020
gatcnnnaaa a 1031

<210> 86
<211> 1039
<212> DNA
<213> Rattus norvegicus

<400> 86
aanttttgng agtntttgga atnnaacngc ggttccttat gntggnnaan aaaccnctnc 60
nanaccccaa taccttggat nttttaanat gcncctgggt aagcnaantt gaattatttt 120
ccntgggata anaagtggaa tcattgacag ttttgtggtc cttttnncat ccccatgngg 180
tttnatgact aggcacttta tttcatggac aaaccagtgt tgtccctcnt ggggactgag 240
tgggattaaa aaaaccttcc aaaaatgtgt aatntgatca aacccattga gacaatcagt 300
gnggagtatt agcaaattaa actgacttgt tcacttntga aaantgatgt ctgatttcgg 360
aagaatccca gtgcctcggg acatgaaagg gagatgtaac cttgagttca tggttaggag 420
ggaattcata gagacagttg gtaaaaatct gagtgaggtt gagaggttgg aggaccacat 480
tgtgtatttg ctcatcntgt gagggagaga ctttgtactc tgctctgaga aggcagaact 540
gttaggcaga cacttagaga atatatgtca tggcaaaaga catccaccca acaagtcttc 600

agtaacaaag cactaaacag aaaggggttg aagagactgg tcagtggctg agagctttta 660
ttgctcttac agaggactcg gcatgcntag cagctcacaa cagcntgtga cttcaacact 720
atgcctctgg cctcaggaga cacctgtgta ctcccaccca gacacatata cttaaaaata 780
aaagaaatct tttaaacatt gagcaaatgt aatcaggtac taacattgaa tatatctggg 840
gccaggaatt attctggttt attgcctttt tcggaagcct aatatcacac atagagaaat 900
aggcagcaca ggcctaacag cccataatgt gtgctattct atcaatagtg ccaagtattg 960
acatggacta ttcaaaaggc ccaaaagtta aatggcccag aagtncaaca taaagncggg 1020
cnagctaaaa gagatcntc 1039

<210> 87
<211> 1058
<212> DNA
<213> Rattus norvegicus

<400> 87
aaaagctttt tttcagnttg gccaattttt aacccattaa anattgttnt ttggaatcng 60
catttggtna ngttattgnc gaggaaggta ntaagggant ttttcccaaa ttncaaccat 120
tnttggccag ttgggatttt gattgantgg gaaccccccа ggntttaata agcctttgga 180
tttgttcaca ggggattaac aaantccttt gnttaatggg gattgaattt gggaaattgn 240
ttccntaatt ttccaggacc aatgcacant ggantattag aactgatgta acagagtgat 300
atgggaccaa gtaggaacaa gggtgcaggt ttgccgaggc aggtaattgn tggtcttgtc 360
attgtcataa ctttcttgaa agttttagga cttggacgga cagaagacat gatcattagt 420
atacttgatg acaagtggag atgaaaggac aaaaattgtg cacatcaaga ggagaattta 480
acattgggtt ttcttgcatt agctatccac tcttgccctc accctcccac ccccttaatc 540
ccagttacct tgacgattga ggtcattttc tctgaacaca ttctcttctt ggatgttaaa 600
gtgccatttg acactgtgtt tagggacact gcttaggccg gggtggggga attgccacag 660
aagcttgacc ttagaaggtt gagactctgg aagcctgaga gagatgagat ctgtcaaaga 720
aacgcttagc gttggtatgg gatgcgtagg aggctgtact cttgttctct agatgctatc 780
acgggtgatg taggagaaat gatctcactc agcccaagat cattcccttc caaatgtgct 840
catcccatca gcaagcaaga cctgtactga agccagcagg ggcgtggtac agagtccggc 900
atttttgca tgccatgctg gtttgatgtt tgaactctaa aggtggagac tgttgggggc 960
agcagggcag acagtcttct gatgatttct ctgccttcaa actgaggtnn actcttgaaa 1020
gattncacct gtaggtnggg caagctaaaa gagaggcc 1058

<210> 88
<211> 1043
<212> DNA
<213> Rattus norvegicus

<400> 88
attttccatt gcgcnccatt gaacggnttt gcgnggggtn ttaggggtnn aanggatttt 60
nagtgtgccn aanaaggtac attgaaggcn ttntttggat ttggntttgt aaanccattc 120
ccttngaaaa ngagttgtag tnttaancgg caaacaacca ccggttgtag cgtggttttt 180
tgttgcaagc ngcggttagg gcggaaaaaa ggatntaagg agatcctttn nctttttcttg 240
ggggtctgac gnntcatgtt gtgtggaatt ntgagcggtt acaatttcac acngattttt 300
tatgcaaatc cacttgccaa gttggnataa ctgacttatt ttaccgggaa ntctccatgt 360
atcttctttg gacacttagc cttacagagc ccaggatgaa ttttgaccaa gccaagtatt 420
cacacagccc aatgtgacat gttaccacaa attggngatt ttccttcagt acactcaaat 480
gacacaagct ttttctcgat gtctttcttg tcattcacta ccaggatgaa attaatttta 540
tcttctgagg angcaatata cgatccaccc aggaaaattc actttagatc ttcgttctca 600
tttcttggca aacagaattt gagctgaatt tctcttagaa aaatctgtcn ttcagaaact 660
taaattcttg ctgttccata acagaagtca gcaagtgact caccctccag atacaggtat 720
attacctcca gtcccatcca cagagactta attctagtca gcttcatgat agtgagcctt 780
catccgtaag gagctgtatg gtatgggaag gggatacaga cagggccagg ggtgttttta 840
aacggtaacc cagggaccac atccattaaa aacactggac tgtttgtgag agtgtatatt 900
cctgagcatt gcctatccct taaggtacta caaaatttgg gagtgaggct cagcaaacta 960
ttttaacatg cctctccacc aacnactcaa gattcccgtg nacagttgaa agtttncacc 1020
aaaggtgggc aagctaaaga gat 1043

<210> 89
<211> 454
<212> DNA
<213> Rattus norvegicus

<400> 89
aattcatccc tcatttgccc tgctagtgaa aactatttca gacctgaaga caacatcctt 60
gaaaacttct ctggagaatg tgcagagatc accatggcaa cctgtcccgg gccctgcctg 120
gcagggctcc aaggcacaca aataacgcca ctggaatgtg gtgcagggct ccgggtgggg 180
tgactagaaa agctgccaat tttccatgaa aaccaccggt gagaagcctc agcctcagga 240
aggtgtcagt agagagggct gggttctctc tagcaccaag ggacaggctg tgcgcaagca 300
tgcgcagaag cacactcacc ggcctccttt ggggcagggc tgcctgaaat gaaccggctt 360
cagttttgtg cagctcaagg gcacaaggnt agtgcccttt ncttggncnt gaggcactnn 420
taaatgtagg ttgggcgcgc taanaaagat ccnt 454

<210> 90
<211> 873
<212> DNA
<213> Rattus norvegicus

<400> 90
gttgttattc aatcatccac atttgtaaaa acacacttcg ggtcctcctt gtgtcnggca 60
gtaccatcca ttgagtttca ggaagcagaa gttttaaaag ctnccagcan cntttaaatc 120
cacagctcaa gttgttgaac accttgggaa actaccactt attcacccag aggagagttg 180
attcaagtag ttagtaccnt tntgcatcag aanccaccag ntactgccgg tgagagtcgg 240
taatnccang aactcatcca tgcaggcaaa tttaaggaca cacggcttga cacagagatg 300
gttanatcgg ctgtgacagt tctttagtgg gagacttttg ctttctgaat ccacagggct 360
tactttcttt ctttttcttt ttaagacaag ctctcatttt catcttgaga aaatgtctga 420
tcaagccacc aactgaaaac ctgccattat aaacgaggga tttcacaatg ctcattccaa 480
aatctgcggc tattcatttc tggaagtgac tcactgagga aggacggctg ttgggggtgg 540
gagggagaga tcatttttag gagaccgcct gctctctgag aactgagcag aaaccccaga 600
gtggctagca cgtgtgtgca gcgaccccag ctcagctctc tgagtcaccc cctcccccag 660
atgacacgcc atgaccagtc tcctcgtgaa agccacttgg tggacaaaaa gcccctttggg 720
ctgtgcaccc agcctcacat ctgcctctct gggggctatt ttcacataaa tcaggaggga 780
ggcagcagca gttgcccacc tgttttngac tccgattgct tggggantga aggactttnt 840
naatgtaggt ttgggncngc tnaaaagatc cnt 873

<210> 91
<211> 876
<212> DNA
<213> Rattus norvegicus

<400> 91
gttgttattc aatcaattct gttgctttgg nccangtcaa acagcccatc cgggatgtga 60
ntatnggaac taacccattt atcctacagc caggaggaaa cccaanggga ggctgaggaa 120
acggctgtgg nttcataaaa ctctttgaat cataccttgg gtgattcaaa tgctttttac 180
taggctctcc ttcatagtac ctctctgtgg acaaagaccc agtccctttg aaaagcattg 240
aaactcaaac cataccacta tcagtttcag ctttaatata aattagcttt ctaagttcag 300
ctgaccacct tttcactgga ccttcactna tctcacaggg aagatatatt ttcaacaatt 360
acaaagacat ttctgggttg gactatgcat tcctttggcc agattctaca tccttttttt 420
atgccagaat tttttagcgt tcctgtaaga ttgtcagttt cccctaggaa atccataaag 480
ctttaaatgc cttctaaata gccaatattt taatgagaaa tgtagtcact gatatctctt 540
tgtatttaaa ggttattttg aggggagttg cttggttggt tggttggttg gttggttggt 600
tggttagttg gttggttttg gctttggttt tctgtcccat ggtaatatga tacttatgtc 660
atagattagt taactcaaat ggtcttttca ggtggcagtc ttgaaaacaa ctaacttggg 720
gggaaaaagg ctgctccatg ttctataaaa gctgtacatg tgattttctc tgctttacct 780
tttatactca tttatttttgt tatttntgta tgaaagccct tccgtcctga aagaccttta 840
cctgtaggtt tggnccgttn aaaagatcnc tgggcc 876

<210> 92
<211> 459
<212> DNA
<213> Rattus norvegicus

<400> 92
aattcagaag gatctcagaa attgaaagca tgtgcaaaga taaagatttg gggtagtagn 60
agtggtcaaa agggacaagg taataatggt aatatgcttt tgtgtatgtg ttcttttaga 120
gttatgttaa aatctagaga agcaaagtcg attctcatag atgcttttag tctttggacc 180
ctgactagag acagtttaca ccctagacaa gagagagaat ggggttgagt aaaacagtcc 240

tcccgaactc tccacagatg ctttggcaaa agaaggaaat gagcttaaac tttttggagc 300
tctcctggga acagaaggag gtgggagacg tcttgcctcc ttgctggctc ctattggaga 360
agtgcttatt tctggttntg ggtttttag gtngnttgtc tgggttcctn gggncctgag 420
ggcacttnna aatgtaggtn tggcgcgcta aaaangatc 459

<210> 93
<211> 3133
<212> DNA
<213> Rattus norvegicus

<400> 93
acccacacnc cnancnacac ccacacacca anccacaccc acacaccaaa ccacacccac 60
acaccaaacc acacccacac accaaaccac acccacacac caaaccacac ccacacaccc 120
gagtgtggtg tgtcctcctc actgagtgtc agccagccct ttcctctact tcaggtaaag 180
gtttctccac tgcctcactg tgtccctgtc acatgggcac aaagccatct cagcagtcct 240
tctcaaggac gtgggtgcca ggtttggaag ctggaatgcc tacatctaaa atcttggcca 300
tgacttgtga caacttacat atacatagac atatatacat atacagctta catagacgca 360
gagcctcaga ctcctctgaa gaacgggttg attctgtgct ctgcagagat gctgggagag 420
tgtataaaaa ggtcaagaaa gcaggcttag aaagaagggc aactctacct agtgtctcct 480
tacaattttg ttttacgtcc tcttctgccc acagagccct taagacactc cctactttct 540
gcatcattcc tggtgtcttg taggaacaag ttagtgaatg atcactctgt aaacacatac 600
ctacaggtcc tccttacctt gggctctgga acacccggtg aagtctgtgg gtaggagggt 660
ctggctgagg ttgagtgtat caagtaatca actggcagta ccctntgggg agtggcctgt 720
ggtttcctgc tccctctttt gggtgagaaa tcctagggtg gtgggagcca aggcttaggc 780
aaaggttcag gcacagcagg gtgtgggagg gagtgagact atagtagagg tgagtggaag 840
gtatggattc gaagactttc ggattaaaaa aaaagcaaaa aaaaaaaaaa aaaaaaacc 900
aaaaaccaaa acaaaacaaa aaaccaaaaa acaaaacggt ccaaccagtg agatgtggct 960
tgctctgagt tgctaattat gcagggctta gatctcaaaa acagtctgtg ctctggggcc 1020
actgctgaca tccaagtcag gcccagaagc tcttggtctt catctttcct ttccctctca 1080
ggctgcttga agctgattga ggtattcctt gcttgttcag ccggttcntg atggtctccn 1140
tgttcntccc agttctctcc atgtttcttt tgctttgaag tacaaaggaa tacagttgca 1200
ggggttacat ggcactcccn tattcacttt tagggttacc acaaaagctt gtgattcttt 1260
ccctcnttag gactgagctt ctacccccgc acacaggcct aactttggtt tccccaccca 1320
taatggggca cccaccccca ccnccgcccc accccacccc aagaaaaaga aaaaagaaaa 1380
agaaagaaat gaaacggcca gctggctctt acccacttg ggcagcaggt gtttcctccc 1440
tagcttccct tttgcatctc atacttgttg cttgcacacc ctcacccctc tcttgctgcc 1500
tttttcaaat taatagcctg caacttcccc tgcatataga gaatggttcc caggttctta 1560
ctgggattag tgaacgctct ttttgttgag gaaatgcttt taacaccacc aagtgctgta 1620
cccctcaaag ttggtgaagc tctagattca ntgggctgta caagggacac ttgggaaaaa 1680
tttgaacagg acaagcctga gggtgtgagt ggggttggct catctacaca ggagctgcga 1740
ntgagaggga aagggccccc aaacatcttt gctaccactg ccttcttaag tttggggact 1800
tggaaatccc gttgtttaga tcttgaccgt aatcaggagt cagcgtagag gaggccccgg 1860
aaggagggcc cagcgcggat tcgcccgcgg cagggcgggg accaacagag ggccntcggg 1920
gataggggag cgccgccccg ccntcccggg gaaggacaca ttgcttgtta gcaggaagcc 1980
agccagaccc ggaggaggcc gctccagcgt tggtgttgcc ggtccggggc tagcctgatc 2040
cgggcagggt gagttgagac gatcgggtga gcttgggccg gggacgccag cgtcttcagt 2100
cctggggatt gtcccaggag ggcaaggagc ttggaggagg gaggccgcac agctagggga 2160
gtcaggtctg agtcccgagt gtggctctaa gccggggcgg tgagagtggc ggcccgcccg 2220
gggccgcgca gcgnggcagtc tccccccgcgt gggaagtggt aacttaacgc acagccacag 2280
gattcccggc ctttagctgc tggagggagg gtggcttctc ccggaggagt ctgttgtgaa 2340
actcggttgg agggcaccgt gggtgcgggc aagggagaga tggggtcgcc ctgaagaagt 2400
ggggggctgg agtagaaagt ggactttgtg caaacctcac cccagagtag ttagttacca 2460
aggctggttt tttttttttt ttttttttgc tcagacacaa ggaaaatttg actcaatgtt 2520
aaaatatgta atttggcagg aaaacttttt tcctagcctc cttgctaata tagttggaac 2580
aggggctcc caagaggtat agagtccccc attttacaaa atgtggttca gtgggactgt 2640
ggcccaccca gtcgtgtatc catggaagag tggcttttat ggagaagttc attttcctta 2700
accttaaaaa ctgtaaagga tcttgtgctt gagaatattg ttggccagct ttatagtctt 2760
catttataaa actatttaga ctagagtgtt atagattata ggtcttcaag tttccagtca 2820
ccagtccttg gttttttagt atggaaatca ccagtaatgg caatataaca tccctgcttc 2880
tgtttcttag aaggctaaat tacagtgtgt tcaaactccg tgtcattgca acaggttaaa 2940
ctaactttat acgtaggaca tcagggtatt gacattctca tcctaaagtc agtttgtctg 3000
tttccagagg aggaactgaa gcagtggttc tttaagtaac tgactcaggg ctttcctgcc 3060
tggcgcgcct gccaggcata gtgtagcatt gtactgcatc ttctttgacc agtttcccca 3120
ggtgaagagc ctg 3133

<210> 94
<211> 2161
<212> DNA
<213> Rattus norvegicus

<400> 94
ctggaagctc ccttctcccc tgtactctac tctgcaaatc cctgcaggtg gacactgaga 60
gaagccacac acacctgttt ttgttttcca tctctgaggg atctgccatc tactgtacat 120
gcagtttctg aaaacatttg tttggcggtt ttctatttgt ttactaagtt agttcagttt 180
tcatcagtgg cacaaactag aagtcattca tatgagtaaa atttgttaaa acgtcttcat 240
aaagttttca gtttgcgagg agcatacaag gaaagggtcg cttaagtgga aagggagcag 300
gctctgtggc tttctcattc taacccttgt ttgttcctgt gaggtgtgga gccctgctct 360
gctgctgtct ggacagagca gagatccttg cagcagccac agctctttac tgcagatgtg 420
ttctgggggc ctggttctga ctccttcagc tcctggtagt gccctgcgtg ataataacag 480
cctcctgctc ccagctccag acagctcgtc tttctgttgc agcagcactg tgaacaccag 540
agtgattctg agcttagatt caagatgacc tcacacttat gggaatcctg tgcgtggacg 600
tgttgcttsc tgtttttact gcccavgatc ttccagctga atgccagagt gttgagtgtg 660
cccarcctgg ggtarcccag cttgctccac caccctctgt ggatactcca cccagtctgc 720
tgttaccagg cactggccca gtgaaaatct aaaggtttta ttgtttagta gaaaattaaa 780
acacttacta cagtttgaat gtgttgcaca ttatggtttg aggccaaagg aaggtaggca 840
gaaggaaaac aggaggcaag gaggggaaga aagctggaga gtctggctgg agggcgatgc 900
cctcctggtt ctgaaagagc cacacccctc tgctgccagt tacaggccga tctgctgctt 960
agcaccaccc tgatgtgctc cagcatctcc cgttccagcg tggtttctgg tcgraccttt 1020
attccacggt tacttgaggg gtgtgtgtgc gtgcgtgtgt gtgtgtgtgt gtgtgtgtgt 1080
gtgtgtgtgt gtgtacatgt ctgtgtcccc atgccacagc acttgtggag gtcagaggac 1140
aaaggacact aaattgcttc tccctttcca tcacgtgggt ccctcaagct tggatcttga 1200
aaacgttact tctagtgtaa ttgtcctaaa agttcacgtg gactttaagt ctcttgttta 1260
aagtctgtag gcagttctgt tcccgcagca cagttcctca caaagccctc tgatggctga 1320
ttctttgctc ttggangcac aaggctgtgc cgtgcttaag acaggctgca cagcttarga 1380
cttgcactga gggcgttctc gcctggttgg ctcarcatct ggagtatatt ggtcatggcg 1440
agtcagggct cagctctcgg tatttatctt tcagtgcatt gatgtatttg cccttacaga 1500
cactgtacct gaattattta acactgtaat gctagtgcct gatactgaat tcatgactat 1560
aagttcanar ctgcaracac agccttaggt gttaaacagt atatttttaa gagcttcaag 1620
tgcacagaac agtaggggtg cagttttgac cccctaggtc tggactttga ggttgcatct 1680
catgaatgca gctctgagct gggggcgcca tactctacat tgtaaagtaa tgcacctcct 1740
aactacctgc catggtagca agctccagcc acctgaaaag cagccagccc tcttggggca 1800
gcactgcatg aggaagcctg aaccccagca aaggagcatt gggctgctat gtctgttctg 1860
ctacagcgac aaatcccagt gtgcacttgc caacagctgg aggcatgcca tagccagggt 1920
ttcagcatgg ctgcccttgg agagaggcgt gcgctgtgtg tgtgtgtgtg tgtgtgtgtg 1980
tgtgtgtgtg tgtgtgtgtg tgttagaata agcaactact gacaaattca rgarcataaa 2040
cattatggaa attttttttgt gtatgtcatc attttaattt taaaagatgc cttatttttct 2100
cctcttggaa ctaaagagat tatatttcac tttataaaga aaaaaaaaaa aaaaaaaaaa 2160
a 2161

<210> 95
<211> 824
<212> DNA
<213> Rattus norvegicus

<400> 95
gggggntttt cnnanntanc aaaaantngn tntancanng antnnttgag ntgttgaagn 60
aangnggaaa angttttgaa atcantgtaa tgaggttcca aaaattgagc aggaaattgg 120
atgntgtcag gagaaacccn ttcagtnttg tgcaattggt tcgccagcag ttaggaccgn 180
ttccccatca cttgtgccag cggacatcca gntattgagc cntgnatcat ttatggnaca 240
aattaggaac acacaacaga gatccgcttt ntgactgcca tgttcgccaa actcaattgg 300
gggaagtaat cctccagacc gttccgtttg cacgtntagg aagccacagt gaaaacacaa 360
aattcgtgga ggcgactcta accaggaagc ctaatcccnt agattcccgg gacactgggg 420
caggcgtcct aaaaacagct ttgtggggct tcagtcctcc gtgcggttcc agtccgggtc 480
ttggggatcg ccctcgcggg gaatgtccgg gactccggtc ggtatctttt tggcctggga 540
atttccagcg tgtggaaaaa gtccacaaac ttagtcctca ctgcccgcct cgcctcctcc 600
ggcccttctc ggtgcccacg cacccccccga tcgaacccga ggatgagcat agggtgtatt 660
ttaggcgtgc tgggcttccc cgcccccctc tgcccactta gctggcaaga agaaagccag 720
cactataaag gaggccaggg ccaaggactg gcctcctctt gctcacgagg tcagacgcga 780
gctctgaaag acttcacctg taggtttggc aagctgaaga gatc 824

<210> 96
<211> 774
<212> DNA
<213> Rattus norvegicus

<400> 96
gagggganna ncancaggac caancngata agggggtcaa caacntgngt tccncccntt 60
gagngggaaa tgagcacgng gcantccaac cgntcaaggt cccgnttcgg acggtcacac 120
antaggttnt catntggatt gccngngttc cngttggcat ccgggaaaan tgagactgtg 180
tcggtaccag agntaggatg gccntccttc ccngccccgg ccttnttggc gccttgcgat 240
ccttcccgaa ccggcccntg gcgtctccgc cttnggcact tgcacatntg gcggcccagg 300
atggcgcttc cgggatggcg ccagcgcgcg tacgtcatca cggagcgtcc atgtgttcct 360
tctgtccaag cgcntaggag cctgcgcgta ctcccagcaa ggaagatgta ggaccaaaat 420
gtagaagcac ttaacatgaa cgtcaaaacg atgaccaatc acagggcgat atatgcgcat 480
gcgcaatgtt ccaatcatgg ctcataagca atccggaagt ggccaattaa atatactatt 540
tactaatcca gggttacaca gtgaaaccct gtctcgaaaa ataaacacag ggctggagag 600
atggctcact gattaagaac actgactgct cttccagaag tcttgagttc aattccgagc 660
aagcacatgg tggctcacaa ccatctgtaa cagattctgg tttatgtnga gacaactaca 720
gtgtactcgt attgaaagnt ncccacctgt aggttnggca agctaaanga gatc 774

<210> 97
<211> 248
<212> DNA
<213> Rattus norvegicus

<400> 97
tgacacttca tggaaactga gaccgggagc ttccaccaga aggcactgcc cagtggagaa 60
aaccgacttc tttttgttgt tgttctgatg ttttgttttt gagataaagg tctcactgtg 120
tagctcaggc tggttttgaa atcaggatcc tgaccctcag gaatgttaaa gtgcctaaaa 180
gtggngacaa attatttttac gtgcctttga aagacttcac ctgtaggttn ggcnagctag 240
aagagatc 248

<210> 98
<211> 880
<212> DNA
<213> Rattus norvegicus

<400> 98
aanatggntt ggttntaaag gttaaaattg gggcaaaatt tttccgcccg ggtccttaaa 60
ccggattaac tccaaggcca aaattccgag ggggaatcaa caacaaggac ccaaccggat 120
taaggcgggt tcaaacaaac ttggatttcc ngccctttgg ggcgggggaa atgggcacgg 180
gngcattcca agcngntcaa ggttccggct tgcggacggt taacacaant aggtttctca 240
tctagattgg ccngcgttgc ggttgagcat ccgggaaaat tgagattgtg tcggtaccag 300
aggtaggatg ggccttcctt cccngccccg gcttcctggc gccttgcnat ccttcccgaa 360
ccggcccttg ggtctccggc cttgggcact tgcacatctg gcggccagga tgcgcttccg 420
ggatggcgcc agcgcgcgta cgtcatcacg gagcgtccat gtgttcnttc tgtccaagcg 480
cttaggagcc tgcgcgtact cccagcaagg aagatgtagg accaaaatgt agaagcactt 540
aacatgaacg tcaaaacgat gaccaatcac agggcgatat atgcgcatgc gcaatgttcc 600
aatcatggct cataagcaat ccggaagtgg ccaattaaat atactattta ctaatccagg 660
gttacacagt gaaaccctgt ctcgaaaaat aaacacaggg ctggagagat ggctcactga 720
ttaagaacac tgactgctct tccagaagtc ttgagttcaa ttccgagcaa gcacatggtg 780
gctcacaacc atctgtaaca gattctggtt tatctggnnt cnactacagt gtannggcat 840
tgaaagatnn tacctgtagg ttggncagct aaaaaggatc 880

<210> 99
<211> 864
<212> DNA
<213> Rattus norvegicus

<400> 99
aattttaant tgttggnata anggcttgnc catatccttc ctnttgtttg ccctaagtaa 60
cagccaattg ggggagaant tttntgtcag tatcatattt ttcgttaggg aacggaggcn 120
caggaantga tccntntggg ttacagtcat tttagcatag gntgacagtt ggngaccaan 180
tnatcttgcc gtgttggaag gagaggggan taaggntgaa gctcttgagt ccnttgangc 240

ccttggaatc gggaantccc ttaaaccaac ccctttgcc gttgaattgc accaaccaga 300
ttcttccagt ctgcttgagg angacaggac ttcattgctn tggagagggg caggagggtt 360
gggagttgac ntnacagggc tcagggattc ttttagaagg gtccaggttc atggcttccc 420
ccccccccag ccaggtcaga cactaaagtg tcttaagccc ctccatactt gccgctcccc 480
cacnttggat gaagccggcc attaggcagg gaccgtctct gggagaggcc aagccctctg 540
gctcacttgt ggatttcctt taagcaagac ttcctctctg cttccaggac tcctgtcaaa 600
caagagggtc cctggcttag agtttgggag ctgcaggcag aacagacatt ccccgatgac 660
tcacaagcct ggaactctgt gggccagcag gaatggggat ggctttctgg tcagtcaggg 720
tcaactggga cactcactct gagacaggga ggcaagggag aaacaggtca gaggtagaga 780
gagctcagtc ccagggactc acgttgaggt ccctaaggtg cgctagggag aggnttttag 840
attcggttng gcaagctaaa agag 864

<210> 100
<211> 874
<212> DNA
<213> Rattus norvegicus

<400> 100
gaggttggac cacaaggagn ttggnggaaa atnnaaaagt caacctatca gggtgtcttt 60
tagtttggaa cagaggcttg ggcagaaata tgggcaagta ttaggaaagt acaaggggaa 120
atgttgtcaa cgcgnttgtt ttcccagttg ttgnactgat cccnccagga tgttttccca 180
cntatgntat ggaaccntct ctttcaggaa gccattntna ncntatggnt tgcaacccct 240
ttggggtcgc aacagcaggt attaacatta ggattcataa cgntagcaaa atnacagtta 300
tggagtagca atgaaataac tctatgnttg ggagggtcac cacaacanga gggacggtat 360
cacaggnttt tagcattagg aaggttgagg accttatttc agagtgtcnt gacaatcntt 420
cntgggacca cttgacttna tctggagccc tttccctcac gctcntactc cttaccatct 480
ctgcacagct ctntgaggct tagagcggtc tttcttcata gctttccntt ttccttcagg 540
tatgcagtca catcttgctt tagaccccag ggacattccg tgtctgactc actgcacaaa 600
atagtttccc acatatgagt cctcaaccgc cccacatcac gagacggaca agaccggaga 660
cgccatacat tctgtatttg ccctccttcc tcatttaaat aggaatttgt tgctgtttaa 720
tttttcatta tttgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 780
tgcgcgcgca cgttaatatg ccgctcagaa tagtctaaaa ctgctgggct tgaaagacnt 840
ncacctgtag gtttgggcna gctaaaagag tatc 874

<210> 101
<211> 886
<212> DNA
<213> Rattus norvegicus

<400> 101
atttttnaat tgcagcaatc ctcctgcctt ttttcttggt tgttaantca caggatnttt 60
gcacacttga ggttgaantt gcagcaatcc tcctgctttt gtttnttggg cgcttggatt 120
atagtatgtg cataacactt gagcagtaac tgtttttcttc aatctcattt atctcagaag 180
ttccccttgn tgattcagac gttattaatt aggcaaacca atgttgattg tcattaccca 240
tgagttgctt ggcttgtgag atgcatactg tgtgttcgtg aggcacntac tgtgaggcat 300
gtgcccgtga ggttcatggc tgtgaggtgt gtgcccgtga ggttcatggc tttctngacc 360
acngggagta tgaaggagag gaatcctacg tttgatgcca gccagggtta tacagcaaga 420
tcccgtctca aaacaaaatg aagaagtaga gagattagtg ttaataagca actgaggcct 480
tgaagggctg aggtcaggcg gtgcctggt gcacacacag aagcgtgcca gtgacgtcag 540
acagactcag ccctgtgtca gacaggccgg agggtgactg gccatgtggc gtgattggac 600
acattcccaa aaaaggaact cgatggaaga ggctcctcnt gctccagaca gggcggtggt 660
tatgtgactt gtgcgagatt agtctcatac cctattgcta gcctgtgcct ggtaccacgg 720
acatggtaca atccagggag gagccgtaag cactacaggg gagccatcct gaatcccagc 780
aagtccaact tctgtttttt cttccttccc cgcaacatta ggaatgactt ctaagagngc 840
tgttgaaaga ctttcacctg taggttgggc aagcttaaaa gaggat 886

<210> 102
<211> 865
<212> DNA
<213> Rattus norvegicus

<400> 102
tggaggtaaa agtcacaagn ttttcaaggg tttgagatga cagttcaacg tgagnattng 60
acaaggattg attcttgtnn acaggaaagn tccccatccc accaananac accgtgttca 120

ggcccantgc tcagagctcc gggcgccagc gaagggcaaa cggccactga ttggaaagnt 180
gcagtttaaa gacatgtccc aggaactggt ancttgtgt gactggactt agccttgcaa 240
ntctgtctga agcataacnt gntgctgtct ntgggcgagc atttatgtgc cccacttgag 300
acccatctca ggacacgcag gacacggtcc agtggagctt tccctccaga gagaggtgtt 360
agggnccatc agtgagcttc caaggacagg ggaccagaac ggtgaaaaca aaccagggct 420
gtgaaggaga gcagggcggg ggggggggga ggggggggcgc tctntagaat agattgaacc 480
tgcagagctg cttgctacct gaagttgtca ccctttttacc cacccacntc atctgtctct 540
gcttgaccat ctcagcaagt gtcacctcgc tgccaggaca caagtttcct aaagcttatt 600
tcagtgtcag ccgctgggga gacacattca gggcatgggc gtcccccagc cctcggggag 660
aatgtgggag gtggcgatgt gggagggatt cgagagaaga gaatgcttaa gaaccatcca 720
gggaacctgt gcgtttgaag gtctgagtta cacacaggct gctcaggaag gagctagagc 780
tccaaatagg agctgtgatc aggctgtgtg tgtgtgcctg gtgaaagact ttnacctgta 840
ggtttgggcn agcttgaaaa gtatc 865

<210> 103
<211> 859
<212> DNA
<213> Rattus norvegicus

<400> 103
cangagcant ntgaancagg catttntgga agggctccng agaaaacacg tggaattnct 60
tgtctctggg actttagtnc cagcnaggan gatncagtga gggaacacac cgggcttttg 120
ttgtgcacgg gaggccaggc tcancnncct tgggagnttg acatccagca ggctatanac 180
agtgatccag gggacatgta cacatgggga actgnccagg cagaggaaaga caagagaaaa 240
tctcaaanga tgaagacaga gangagtaat atggccagaa ngatacagtg cctcntgcat 300
aacccttgag tttaatttcc agggtcaact gtattttgaa agtataaatg aaagttcctg 360
aagtaataaa tttataggat gttagtatca cactgttcag aatagctcaa aaaatcctgc 420
cntgtcctct taagtatgtg aatcatcttt tactgcaacg tgtccacaat gtatatacta 480
catacccaaa agtcctcact gttatcccaa ttagtaggct ggctgccaat agttgtccat 540
acagagtgcc tgctgctgtg gccatccnta ctgtagtaaa cagtcatcca aagctcagga 600
gtgaggctat tgtagaaatg cacttcctgg gggccctact gtcagtgagc acctgagaga 660
gaaagggaca caggcccaag gtgggaggcc ttagataaag gcccatcatg ctcaggaaag 720
gatttntaca gatctcttag ggaagttaca atcaaattca tacctcacag cagagctcag 780
gagaagaatc cataaagnnt gaagacatgc ttgtngtgnc tgaaggacnn tacntgtagn 840
tngggccngc tgaaatttt 859

<210> 104
<211> 883
<212> DNA
<213> Rattus norvegicus

<400> 104
ggggggnnaa naatttccca aaaannggnng gncccntttt ttatccagtt tnnggttgaa 60
natctcnccc cggtttnaaa acccncaatg gggaaaaagg tacancngat tntttatngg 120
tttgggcgga gggggaaatt ttttggttt ttttnttttnn gggatttttg aaaaaaaaan 180
gaantttta ggtttcccnn angtaattta tttcaatgga ccatttttgg ggttctccct 240
tttgtaanan gttaaaaana agggnnttcc aannttnctt ttcagtttcc agtttcacct 300
tcngtagcag acccagtttt catttttgagn tggtnccnaa aaggnttccc aactatgttc 360
aataccacag gcagcctgca ggagggagaa tgggtatgta tttaacagca tttgaccaaa 420
ttataagagc agagaggagc tttaccaggg acaggaaggc aaaagagctg aatnttaaac 480
aaaagaataa gaacaggatn tcatctgtga gctgtcacag tgggtttgca gagcaggaga 540
acacagacag gattagctat aaagttgtta cattagttat tntattggag catacaatac 600
ttaaatagtt ctagggcaag agaaatgaac agaaatgacc ttataagagc cagagctgta 660
gccacagctt tctttgtgct tagtttgnta gttcantctt tccagggcag tctggtggat 720
nacaccaaat tgctttagaa aatgctagnt ctactgtccc tgtctattgt cagctttgca 780
atgtgcatag tgacaggagt tgcctgggag cttggggctt atgttttgca gatccattgt 840
aattaaaaaa gaattgtaag gagatggagg cacggggtga ggg 883

<210> 105
<211> 987
<212> DNA
<213> Rattus norvegicus

<400> 105

cannttccc ntanccgaaa ntttnttttt ggcccaaccn gtaagacgga ttttttncaa 60
ttgcggancc aatggaaccg gtttgccggg nngtnttttg gggtgaacgg tttnttaant 120
ggngccaaan aaggttnatt ggaggncnta tttgaattgg tntgtaaanc ntttncttgg 180
aaaaggnttg tagcnttaan ccggcaacaa accaccggtt gtacggtgtt tttttgttgc 240
agccgcagnt tangggcaga aaaagaattc aggagatcct taanctttt nttcgggntc 300
tgacgctcat gttgtgtgga tttntgagcg gttacanttt nacacggaat tctattcact 360
ggcatgactc acttccccgg gttcatgagt cagcagtgag ttatctaggt atgtgttttg 420
tgttgcaaat tcccatatat agaatatggt cccggggacc atagaaagtt gagcagttgg 480
gcaaaattct tccccaggag gtgtgttcaa gagaagaggt tcagcccttg aaagagcttc 540
cgtttctatc ntcacaaaca tcntgaaaaa taggctaaat gttattctgt gaagagtcat 600
tactggtttt actgatggtg gaagttctca gactgtctag aaaggtaatt ttaaaacgta 660
agaaaattag acccctgtcc ccagatctgt tggtgttgag aaatctgtag aaacttgagc 720
aggaggaagt acaagaaagt atgtagctat tgtaatccct ttcaggaagg atgtgtttaa 780
agctctattg ttagggcctt tcgcttgcac tgtgaagtaa ttttttactt tttataagct 840
taaaggatgg cttaataaga cgtcttagaa atgtccacat tatattggat caacaaacgc 900
caaagcatca gtttgcgtca ggggccacgg ggcatgggga ctaacggttc attctttggg 960
aatctggatg cctaggtgca gtagggc 987

<210> 106
<211> 1031
<212> DNA
<213> Rattus norvegicus

<400> 106
agtcctgccc ccntgggaag ggtaaccttg acctaacccc cnaataantt nccccttagga 60
ttgcttggca tggnttttac gcgtaaccct antaaaactt tgangaaant tccttccctt 120
tgattctagc aatgnaccgg cattttgcca atcnattcng ctgnantaat tatgaagttc 180
cggtttaanc aatttgaagt ttaacattca tgtatcttca cagtcatgtg tttttgtgta 240
tgatgaaacn ccatgctgtc ttgcnccatt tgntcaggan tgagtcattt gtctagcntg 300
nccatgctgt atatgctacc natccatcag ttattcatag ccagcttggt tgtngactaa 360
caacagtagt ttcacantgc tttgtgttaa agtcaccttc agtttattta atgttggcac 420
caaagcacat gntagtgatg tcagcantgc tgatatgcca gggaaaagcc attaggtatt 480
cctttatgtg taaaggttga aaattgttga ttgaatgaag ggaaaaatta ttctgctgat 540
tgatgttggg aagggcatta gaggatcata ttactagttt ttgactaagc tctgaagttt 600
gtacatgaat ttatggatcc tccctgcaat agattcctga tgctctctaa catccatctt 660
ctcatatgac atccttctgg ccagatatct agctttattt tctctactct gctgcaccac 720
tgcctctgcc tttggggatc agtccccata gaatgggagg aaaacaatgg cctccttaga 780
ccatgaatgg ccttctctca gtaccatgaa gaatcgggcc atcttgtcag agggaaattt 840
tccttacatc ctcagtcact gtttctgtca ccattataca ttatatgttt gcctaagagt 900
gagggtgatt tgtgtagtaa ggaatgtatg tgttgttgtg gtagtttgga tgagaacggc 960
tccccaaagc tcatgtattt gaatggntat gaaagacntt cacctgtagg tttggcnagc 1020
tagaaagagg a 1031

<210> 107
<211> 1138
<212> DNA
<213> Rattus norvegicus

<400> 107
caancaccnc ncggananga ncccgggnga anngagaccg gncanacacg acgngancag 60
cgaagncanc ncgnnnnngg cncgncagag cgnncgancg cgacnanagn acgncgccga 120
nangannnaa nccggngnna ncannncagnn gggaaacagc ccagagagat aggacancaa 180
acnaganagn acacancgng acgagananc ccgaaagnnn nanacnnana nanaannaag 240
agaanagnnc aacnnnnnca nnnngaccng gaanagggnn nnngaacngc nancnnccna 300
gnngcgngan cnanacacga cngaagagac gngngcngaa naganacncn gaanngnaac 360
aagangnana annngacagg aancacnnag nagggngngg gcaagcgcaa ngnnnganaa 420
nnnacaacag aaaaaagannc anancanaag ngncgagagn annagaanna gngaaanncg 480
nanncgcncc gaagaagaac gnnggacaaa naccgacgna ncnnnnncan ngannaaanc 540
gcangnancn gacnaggaac gacngnaagn gcnaagnnac ganngncaga nnanangaaa 600
cacgnnnnan acannnaccn ancgcagcgg nncaggaaag nggngcnacn gaggngngcc 660
aanaaganaa nngnnagann acaaaaaaaa nggnggncan gcagnanaaa accgagnncn 720
nnnnnannna gaganagaac gagannnang nncgaannac gcgnacaaga angggaannn 780
cgnangacgc nncggaacaa ngaccnnnnn aaanncagnn anccaacnag gnaannnaga 840
nnnagngncn ccanngcaag cncncacnaa gaagaagana cccccccccn annangnagn 900

aagcnccncc ngngaggnaa cncgagaccc cccngnaggc agcancgcca agngnagcgn 960
ncagagnacn nanntaacag accgaaggaa nagccgnaaa acaccaaana cnagacnacn 1020
agcnagnccc gcgcacnnng gagnaancna ccnncnaang acnganancg nggnccncgc 1080
tnttnngttn aacgcancnn ggggcggccc nngggaaacn cngggggaca aaaggcgg 1138

<210> 108
<211> 1072
<212> DNA
<213> Rattus norvegicus

<400> 108
cccttnaant gggnccccaa ngggnntccc ccccaggggt tccccccccc cctaaanttg 60
cctttntaac ccagggntgg nnnnntggaa tttttgaann tggaggntcn nnngnaacat 120
tnccgggatt tttgaggagt ttgaatgacc ggaattntac tttttgggtt ccggcnggca 180
ccccnntccc ccaaggttna gngagttttg aaggtaaaag tcacaaggtt tttaaagggt 240
ttgaggatga cagttcaacg tgaagatntt gacaangatt gatttttgta nacaggaaaa 300
gntcccnatc ccaaccaana aaaccgtgtt naggcccaat gttcagagct cngggcncca 360
gggaagggca aacgcccaat tgattggaaa gctgcagttt aagacatgtc ccaggaattg 420
gtaccttgtg tgattggact tanccttgca actttgtttg angcataagt tgntgtgtct 480
ttgggggagc atttatgtgc cccacttgag acccatntca ggacacgcag gacacggtcc 540
cagtgagctt tccctccaga gagaggtgnt agggtccatc agtgagctnc caaggacagg 600
ggaccagaac gttgaaaaca aaccagggtt gtgaaggaga gcagggcggg ggggggggga 660
ggggggggcgt tctctagaat agattgaacc tgcagagctg cntgctacct gaagttgtca 720
ccctttttacc cacccacctc atctgtctct gcttgaccat ctcagcaagt gtcacctcgc 780
tgccaggaca caagtttcct aaagcttatt tcagtgtcag ccgctgggga gacacattca 840
gggcatgggc gtccccccagc cctcggggag aatgtgggag gtggcgatgt gggagggatt 900
cgagagaaga gaatgcttaa gaaccatcca gggaacctgt gcgtttgaag gtctgagtta 960
cacacaggct gctcagaagg agctagagct cccaaatagg agctgtgatc aggctgtgtg 1020
tgtgtgctgg tgaaagactn ccacctgtag gtnggccaag ctaaatgaga tc 1072

<210> 109
<211> 1094
<212> DNA
<213> Rattus norvegicus

<400> 109
ggtttngggt ganatcctcc caatgccnan aanttccctt ttttaagatt ttttttttcc 60
gggaaaattn taaaantttt aactggggtg gnaaataata aggntgtttn tggggttggc 120
ccaatttttg nantttagga aaagttcttt gggtnaattc cagcnttgat tggaggagca 180
attatnttgt tanaanttat ggttgtgggg atgcttgtta aatcttttag atgtttcccc 240
ttctgtctcc cttttggaat ggtcttaata ggttgcnaaa attntacntn ttggatcagc 300
tttttnatna gatttagccc agtgtgctna nettgtgaga cccntttnac agganttgct 360
tggnccattt gaaacacgta tttatgtcan gattcataac agtngcaaaa atatagttat 420
gaagcagcaa gaaaatcact ttatgnttgg aggtcaccac aacatgagga atgtattaan 480
cgcagtatta gagagttcga ganccactat cttngaggat gcgttagact gatgtttccc 540
ttctcgcttg gagttgacnt tgccantaga gggcaacagc atcagtattg ttcccagtcc 600
ccntcacant gattcgaact ttaaggacac tgatctctgg ctggtagagg gttcagcaca 660
cataccagag ttacgagtca cgtgccagaa gggcaaactg aacacggaat tagagggaac 720
tcgatgtctc cggcttgcac tggtcttctc ttgcactaga atcnttcatc ntgctcccag 780
tccgggacgt ccaggcaaca agggcgtgga aagtgagggg gctgggaggt gtgtttgcct 840
tgcctcaggc gctgggtggg gttggggcgt gccagcactc cctgggcggg cctcaccgat 900
gctggccact ataaggccag ccagactgcg acacagtcca tcccctcgac cactcttttg 960
gcgcttcatt gtcgagtgtg gtgagcctct actggggcgt ccctctaaga tctgtccact 1020
cctggtttta ggggttaagc ctttcgtgcc cctgaaagtt ncccacctgt agtgggccaa 1080
gctaaaatga gatc 1094

<210> 110
<211> 1107
<212> DNA
<213> Rattus norvegicus

<400> 110
atctcattta gcttggccca cctacaggtg gganactttc aaacctgtgg gagacccctt 60
tcacaggaat tgcctgagac catctgaaaa cacagtattt atgtcacgat tcataacagt 120

agcaaaaata tagttatgaa gcagcaacga aaatcacttt atggttggag cgtcaccaca 180
acatgaagaa tgtattaatc cgcagtatta gagaggtcga gaaccactat cttagaggat 240
gcggtagact gactgcttcc cctctcgctt ggagttgacc ttgccactag agggcaacag 300
catcagtatt gttcccagtc cccctcacac tgattcgaac tttaaggaca ctgatctctg 360
gctggtagan ggttcagcac acataccaga gttacgagtc acgtgccana anggcaaact 420
gaacaccgaa ttanagggaa ctcnatgtct ccggcttgca ctggtcttct cctgcactaa 480
aatccttcat cctgctccca ntccgggacg tccaagcaac aaaggcgtng naanttaagg 540
ggctgggaag tgtgtttgcc ttgcctcaag cgctgggtng gggtttgggc gtgccaacac 600
tccctgggcg gggctcaacg atgctggcac tataaaggca accagactgc gacacaatcc 660
atcccctcaa caatcctttg gngcctcaat gtcnacntgt tgtgagctcn cactggggng 720
tcccncnaaa tttgtcactc ctggtcnaag ggttaaaccn ttcctgccna tcaacctctg 780
cnggctcaat ggtggaatgc actggattca aattttcggn gcccaaggaa acaaggaaaa 840
ccagggctgc tnggctgtnc aaaaaaancc cagggtaagg gancccatgg gngggaanct 900
aaacngcntt tctnggggtc aagaagggtt tccccggggg tgtnaacccc cccaatntt 960
tggcccctca ggaggnttca ngggaanccc cattccttcc ttgccaatca aaagccccat 1020
ttccttgaan ccnggggggaa nntttaaaac ccnaancccc tccattntta accccccccca 1080
atggnccngn ngnaccnttg nnntttg 1107

<210> 111
<211> 1069
<212> DNA
<213> Rattus norvegicus

<400> 111
aatttttttt nccggnaaaa ttttnaaant tttaantggg ggggtaanna nnaaggttgt 60
ttctgggntt ggcccatttt tgcacattag gganagttnt ttggggtaaa nttccagcng 120
ttgattggag gagcaagtga tnttgttana atttatggtt gtgggggatg ntgttaaaat 180
cttttaggat tggttccccct tntgtctccc tttttggaca tggntcttan ataggtggnt 240
caaaattcta cntnttggaa tcagcntatn tcatcaggat ttagcccagt gtgntnaacc 300
tgtggagacc cntttcacag ganttgcttg agaccatttg aaacacagta tttatgtcan 360
gattcataac agtagcaaaa atatagttat gaagcagcaa cgaaatcact ttatggttgg 420
agcgtcacca caacatgagg aatgtattaa tccgcagtat tagaggaggtc gaganccact 480
atcttagagg atgcggtaga ctgattgctt cccntcttcg cttggagttg accttgccan 540
tagagggcaa cagcatcagt attgttccca gtccccctca cactgattcg aactttaagg 600
acactgatct ctggctggta gagggttcag cacacatacc agagttacga gtcacgtgcc 660
agaagggcaa actgaacacg gaattagagg gaactcgatg tctccggctt gcactggtct 720
tctcttgcac tagaatcctt catcctgctc ccagtccggg acgtccaggc aacaagggcg 780
tggaaagtga gggggctggg aggtgtgttt gccttgcctc aggcgctggg tggggttggg 840
gcgtgccagc actccctggg cgggcctcag cgatgctggc cactataagg ccagccagac 900
tgcgacacag tccatcccct cgaccactct tttggcgctt cattgtcgac gtgtggtgag 960
ctctcactgg ggcgtccctc taagatctgt ccactcctgg tntaggggtt aagcctttcg 1020
tgccctgaaa gatttncacc tgtaggtggg gcaagctaaa agagangcc 1069

<210> 112
<211> 1058
<212> DNA
<213> Rattus norvegicus

<400> 112
caggttttgg gttttccaag gnccccccccc tgggggttac aaaatggcgn nnantcgngg 60
tgggaaccng acgggtttaa gntaccgggt ttccccntgg agtccntggg ggttcctntc 120
cgaccttcgg ttaccggtac ctgcccnctt tttcctttgg gagggtgggn tttttcatag 180
ctcagctgta gtatctcagt tcgtttagtc nttngnccaa gttggtttnt gcaggacccc 240
cngtnagccg gaccggtgcc ccttatccgg taatattgtc ttgagtccaa ccngtagaca 300
ngattattgc cattggcagc agcaatgtaa caggttngca gagcgaggta tgtaggcggt 360
gtacngggtt cttgaagtgg tgccntaant tacggntaca ntngagggac agtatttggt 420
atttgcgctn ttgttgaagc cagttacttt nggaaaggag ttgntagttc ttnatccggc 480
aaacaancca cngttgntag cggtggtttt tttgtttgca agcagcagat tacgcgcaga 540
aaaaaagnat ctcaggaaga tcctttnatc ttttctttcg gggtctgacg ctcatgttgt 600
gtggaattgt gagcggataa caatttcaca cagaatttct cttagaaaaa tctgtccttc 660
agaaacttaa attctgctgt tccataacag aagtcagcaa gtgactcacc ctccagatac 720
aggtatatta cctccactcc catccacaga gacttaattc tagtcagctt catgatagtg 780
agccttcatc cgtaaggagc tgtatggtat gggaagggga tacagacagg gccaggggtg 840
tttttaaacg gtaacccagg gaccacatcc attaaaaaca ctggactgtt tgtgagagtg 900

tatattcctg agcattgcct atcccttaag gtactacaaa atttgggagt gaggctcagc 960
aaactatttt aacatgcctc tcccacccaa ctactcaaga ttccccgtgc acagttgaaa 1020
gntttnccac ctgnaggtgg ggccaagcta aaagagat 1058

<210> 113
<211> 1046
<212> DNA
<213> Rattus norvegicus

<400> 113
cannaaaann agttccaagg aantggntgc ccngaacaag gacccaaaac ntgnnnnana 60
angggggann naanggcana annnatggac gagagtnaan ancgcnangn agaagantna 120
aaantcncca nntggngccc caaatnncnc aattgancca aancnntaga ggnncccaag 180
acnaatgggc actntganna gancnggcca gaagncaagn gggggannnt catagnnaca 240
tggnanaaat aaagntntgt aaacccggan tggcaatnga aaccagcaaa gacccatgaa 300
cgtgagngan accagttgga aacaatgaan nnantgggtn antnacagga atgnggtnan 360
gacgcnnagt gancccaaan aggcaacncc attgaaagcc ttcnccncca tggaaatact 420
gtanntaaaa caaacaaaca aatnacaaaa anaaaaaacc caaagcttaa gtggagtgcc 480
cnttccagnt agccaccnnn taagaactgt aaatcgcacc ntcccangcc agatgcaggt 540
aaggnaggat tacaggnatn tcggagggct caggagggaa tgggtcncaa nntgagctga 600
ggcncnggtg anttncgcta cntcgnaaaa aangagaagt catgtgggac gnatgtgtgt 660
aagcacagct cntgtgangt caagtcagca acantatgcc atactctgaa gacagaggnc 720
cataatagna ttgttacang atncnngact tttanaaaan caaaatccta aatcctattc 780
tccgtgggcc cacacgaaac anccatccat caggatcatc tcacagttgc ctctgannnt 840
tngtnttctn ggaancntan gntntcggag ttggggaccg aactcagggc cgtgtgcttg 900
ctaggcaagc gctctaccag tgagctaaat ccncaacccc cacagntgcc tcntntgatt 960
gnaggtntcn tatcccnttc ttttgtggca agntcttctg ggcccentga aagtgaannc 1020
acntaagngg ncgccagcta agnaga 1046

<210> 114
<211> 1083
<212> DNA
<213> Rattus norvegicus

<400> 114
ctcccnggcc ccaaaaattn ttttanaaan tttttttttc gggnaaattt tnaaaatttt 60
aagnggggggg aannacaaag nnnnttntgg gntggnccaa tggggaaaat taagnnnann 120
ttgnntgggg tgaattcccg ccntngnttg gaggaggnaa ttatnttgta gaaatttatg 180
gttgtggggg atnttgttaa atctttttgaa tgtgttcccc ttntgtttcc cttttgggac 240
atggntctta ataggtggnc aaattttacc ntnttggaat cagcctattt atcaagatta 300
gcccagtgtg ctcaaccttg tggaacgcct ttaacaggat ttgcttggnc catntgaaac 360
acagtattta tgtcaggatt cataacagta gcaaaantat agttatgang cagcaagaaa 420
atcactttat ggttggagcg tcaccacaac atgaggaatg tattaatccg cagtattaga 480
gaggtcgaga accactatct tagaggatgc ggtagactga ttgcttccct tctcgcttgg 540
agttgacctt gccactagag ggcaacagca tcagtattgt tcccagtccc cctcacactg 600
attcgaactt taaggacact gatctctggc tggtagaggg ttcagcacac ataccagagt 660
tacgagtcac gtgccagaag ggcaaactga acaeggaatt agagggaact cgatgtctcc 720
ggcttgcact ggtttctctt gcactagaat ccttcatcnt gctcccagtc cgggacgtcc 780
aggcaacaag ggcgtggaaa gtgagggggc tgggaggtgt gtttgccttg cctcaggcgc 840
tgggtggggt tggggcgtgc cagcactccc tgggcgggcc tcaccgatgc tggccactat 900
aaggccagcc agactgcgac acagtccatc ccctcgacca ctcttttggc gcttcattgt 960
cgacgtgtgg tgagctctca ctggggcgtc cctctaagat ctgtccactc ctggtttagg 1020
ggttaagcct ttngtgcccc tgaaagtttn ncacctgtag gtggggcaag ctanagagat 1080
ntt 1083

<210> 115
<211> 913
<212> DNA
<213> Rattus norvegicus

<400> 115
ggggaaaaaa atntgggncc ctttnaaaga aattctggaa anccgccggt ggggnatttt 60
taanataggt ggggnccnaa aancttgatt ttccctttтc cctttgantg nntaaagttg 120
cnaanttccc tttggacgcc ntttacaaga ttagccngtg tgtaaccttt gggcccttta 180

acaggattnc ttggccntnt gaaacacgta tttatgtcag gnttntaccg tngcaaantt 240
ngttttgagc agcaacgaaa tcactttatg gttggaggtc accacaactt gaggatgtat 300
taatccgcag tattagagag tcgagaacca ntatcttaga ggatcggtag actgatgttt 360
cccntttngc ttggagttgn cttnccacta gaggcaacag catcagtatt gttccccagt 420
ccccctcaca ttgattcgaa ctttaaggac actgatctct ggcttggtag agggttcagc 480
acacatacca gagttacgag tcacgtgcca gaaggcaaac tgaacacgga attagaggga 540
actcgatgtc tccggcttgc actggtcttn tcttgcacta gaatcnttca tcntgctccg 600
agtccgggac gtccaggcaa caagggcgtg gaaagtgagg gggctgggag gtgtgtttgc 660
cttgcctcag gcgctgggtg gggttggggc gtgccagcac tccctgggcg ggcctcaccg 720
atgctggcca ctataaggcc agccagactg cgacacagtc catcccctcg ccactcttct 780
ggcgcttcat tgtcgacgtg tggtgagctc tcactggggc gtccctctaa gatctgtcca 840
ctcctggtct agggnttaag cctttcctgc cctgaaagac cntacntgta ggttngncaa 900
gctaaatgag atc 913

<210> 116
<211> 1123
<212> DNA
<213> Rattus norvegicus

<400> 116
acgcnatntt ggtggaattt ggggggtaaa aattttnaac gaattaggna ncttagggna 60
cnaaatccga aatggggaat ngggntaaat ttcgaaccnt ttnggaggnn ntaaatntaa 120
aaatgaggnt aattggnttn gaaangcnta tcaggcattc caaattntta aatttccctt 180
ggccagagat tggggaaaat tttncccgga ntccagnttt aggttnnttg gaaaaacggn 240
gccccaggga ttgttgcacc nttcccaatn aaggnggttt tccntccaan gcctttnggg 300
gnaaacccag ggggggnttn aggggcccaa ttcaggaaaa ggggaccgga ntcgggtccc 360
ggaaggnttc ccggngggga atcaacccgg ttcccntccg gaggccgggg gggaccttta 420
ggtttcccct tgcaggggta anatcccctt tttcaacccg gggggtttgc ggggnacgcc 480
cctttgccct ttcccttccc ttgccnggcc cgttttgccc aattnggccg gtcctaactt 540
gttggcgcaa gggacttttg gcagccccgg ccggtttggc ggttggactc caagggggta 600
acagggccaa accntttggt tgaaanaagt taacttgcgc ccccagtcan gcgtcagtgg 660
gnangtgacc ccgcntttag gagtttgccc cngccnttag gccttgcccc cagaggtcgc 720
cccacntact agagtgtcgc ttggcgcgat gacgtangan gacgcaggcg cagtgagtag 780
gcgacgttgg gacggccctt ggttgtgtcg ggggcggaac tntgntggct ttgagcgcct 840
tcnaaacagt aggttgcttg gggctctgcg gcgtcggaaa taaggcgggg aggagcaaga 900
aaacagggat cctccagtcg tgtggaccga cccgagtccc gcacccttct taaggcctgt 960
gttgcggatc cgcgcggcca tcacgcattg catcacggtt ttactgtgtg ggaaacgtag 1020
ccgtccatac ctgggtgtag tcagggacct ttatggtggc tgtcacgcag gcgatttgnc 1080
aattgaaaga ctttnncctg taggnanggg nagctaaaaa gat 1123

<210> 117
<211> 1116
<212> DNA
<213> Rattus norvegicus

<400> 117
aatttttaa ccncccccnt tttnaagnet gaanttgcan tgcctaggag ccctattttt 60
ccccttgna antttcccc gtaaataagg naatgntgna nttgtattta ncttgcccaa 120
aaaaaacnnt gttcttnaat gcaaggtant tgggggttat tattntgaaa ggcaactaat 180
tnttaatggt ggattnaaca attttgaagn ggattaaana aaanaaatna ttgntttcca 240
ttggnggtgt gggnttaaaa cccttggtnn ccagggttcc antgggttca ggccctttga 300
gngggntccc cnttcccggg gaatnggntt gaaccggaaa ttgaacattt tgcacccttt 360
tccggnggcc cttaaggatt gcagcnccag ttgcggggaa ggggtaattc cttgcccncc 420
gtggaagggg tttcagnttc cttcccaacc ccccccggc cgggagtccg gnggggcggt 480
ttntttcacc ttaagggcgg gcgtggantt aaattaagcg ccgggggnggg ntcccaagcc 540
ntccggcccg gctttggttc cttntgggcg ccgggggcna acggccccng gggctttggg 600
cggttntccn nccggccaac cgggncccgt ggttgntggg ttaggccagt gcaccnggag 660
ttnccggggg caaccaaatg tccaggactt angctntgca aggagtttgg gataggactc 720
ntacaatggt ccctccctcc gtttgccccc gaggcccttt gggagctggt tnatcccaga 780
actcagtgag tcactctcat gaagcacggt tggctgcttt ggaatgctgg gcaaccccag 840
aacacagtgc tgtactagta cacacacaca cacacacaca cacacacacg ttacacatgc 900
tgacacaaac atgaaaatgc agtcaacggc aggcagagat ggatggatgc acattgctgt 960
ggaatggtac actttgcacc tcacactctt ccagagggac agtccataca acactcagct 1020
tcgcttccca ctataggctt cacatgacca gctcttcagc gtcggaaagg acngtactga 1080

aagacttnac ctgtaggnng gncagctaaa aagatc 1116

<210> 118
<211> 900
<212> DNA
<213> Rattus norvegicus

<400> 118
gggngttngc tctcagatgc nagntacnnn tcagggggng tctcacgaga aaanctnatg 60
tgtgggggnt antntgtatc ccctnnnctc nctcgaganc ccnnntctcg anattttggn 120
gaccnggggc cggggcccag anactcncca ccccatatgg ngaccctnta taagtgtcnn 180
ccagggnntg ttttgggnaa aatatancnn anagnggtgt ntntnanatc tcgggggggtg 240
acagacccnn attttttttt ataaagaccc ggggcatntt ctcngccccn tctcctcngc 300
tacangnnac ccacacacag tgtgtctcct ctcagccccc tggcacactt tnthtngant 360
cngnggggat atgagattcn cnagactggg nccgcnntan tanncncccc cntgtctcct 420
ctcatagtgt ngtgtccccc cctcacccnn tnttgnggtn ccctacaccc acacaatnta 480
gactctnccc nccntcngct ntgngacnca canctgnaaa tcccgnnncn caaaaagggc 540
tgtnctcctc tctnttacng ggnggtcncc cncnnnngac tctnaaangt ccctcncaaa 600
agggacnctt ttctatacac ncttantttn cctcctttgt ntngcaaaaa annancctgt 660
gttnccccccc nctttatnat ntttntttttn ttccccaaac taanctttta ggnntnanct 720
tccggggccc caaccccaaa atcccantnt tcttttntnt tggttggggt gtcaaaattc 780
ctnccccctaa antttgaac ccccttaat tccccccccc ggntnaaggc ccnacttccc 840
tnggntnttt tcnctaaaaa atttttgtn gccctccctg ggaaatcccc ggtattcctc 900

<210> 119
<211> 498
<212> DNA
<213> Rattus norvegicus

<400> 119
atgttgtgtg gaattgtgag cggataacaa tttcacacag aattcagaag gatctcagaa 60
attgaaagca tgtgcaaaga taaagatttg gggtagtagt agtggtcaaa agggacaagg 120
taataatggt aatatgcttt tgtgtatgtg ttctttaga gttatgttaa aatctagaga 180
agcaaagtcg attctcatag atgcttttag tctttggacc ctgactagag acagtttaca 240
ccctagacaa gagagagaat ggggttgagt aaaacagtcc tcccgaactc tccacagatg 300
ctttggcaaa agaaggaaat gagcttaaac tttttggagc tctcctggga acagaaggag 360
gtgggagacg tcttgcctcc ttgctgctcc tattggagaa gtgcttattt ctggttctgg 420
gtttttagg taggntgtct gggtcccttt ggtntgaaag accttacctg taggtttggn 480
cgntngaaaa gatcntgg 498

<210> 120
<211> 380
<212> DNA
<213> Rattus norvegicus

<400> 120
aatgggnggt ttccgaaaan aacgcnaaaa aaaaagttag ggaatttggg gaattaagaa 60
nccgggaacn tgnaaacatt gaccaanctt gttttaatta ccggtttggg gnaaaagggg 120
caaccccaaa ggggaaggga anggaangga aaatnaattn cctttnnaaa aaggagnaaa 180
tncgggtang gaaaattccg gtgnggggtt ttcaaaggtc ccccccccgnn ggnntaaaaa 240
attgaagttn antcnnggggg gggaacccaa nagaatataa anaaaccggg gtttcccccn 300
gggagttcct tgggggtttn ccggttcgac ccgncgntta ccggaaacct ntcncctttt 360
tcccttgggg naggggggggg 380

<210> 121
<211> 998
<212> DNA
<213> Rattus norvegicus

<400> 121
acatgtacac aactgggtcc cagccaagtc aggttccagc tgccagcaga ggcctggagc 60
tagcttcgcg tgcactacca ccctgcccaa cctggcactg tgcccattga cttcgggggg 120
ccgggggcag gaggtaccca cctccccacc ctcctcttcc ctcctctcag gagcttatct 180
atcggtgagc agcaagtagg aaaaggtaag ctgagaaaga gcacttggct ggctacagga 240

cctcagcctg aggtgtgaaa caggagactg ggcactgggg aaacagcagc actggctggg 300
ccaaagggga gggaggaagg caatgaatgg gcaagcctgt gccttacaga aacagactcc 360
cttgggctgg gtgctggaat cctaacccct cagtgatggg ggaactctgc tccagtgagc 420
tgaagtatac atgtggggaa ttgggggtg gggtaggggg aaggcaatcc aaaggtcact 480
cccctgacct agttggacca cagttaatta aggctcccaa gccctgctga ctcttnacgt 540
ctggtttctg gaaagaaggg agttaatcag caaacaattt aagaaaggta taactgtcta 600
cccctgcaga ggatcatggg ttncctctct anncttctga gccgtggatc tcagccaaaa 660
acaaaaacca aaacaaagaa acaaacgcct atttaaaagg gggttggagt tgggcagggg 720
tgaggtngtt agatcatctg agagctccag gacacgcana tagttgaaga ggaaaccaag 780
atccaaatgt cttctgacat cacacgggat gcagcagcac accaacatat actttancct 840
cnccagagag gaaaacaacc gcctagttaa taagcagagt tgggctgttg gcaaaccgtc 900
attccagatc tgaggnaagt tggatggttc gggtgtctat gttnacntaa gacctgtttt 960
acaagctnnt atgggcaagg gctttggttc nagnaagg 998

<210> 122
<211> 970
<212> DNA
<213> Rattus norvegicus

<400> 122
ccggtcnccg aaggannttg aaccttcccg gtttttaann aanacccgna tnttcgggat 60
tgggttttta acggcttttt ttanaaggcc nagataccct tttnatggcc tttattccct 120
tccgttttnt tccccccctt caatttggaa gtttggtttg ccgaanttta agttnttgtc 180
ntcctncgtt nttttttttcc nttnttttttt cccaaaagta acaanccggt attggtttcc 240
aaggntnttn ttgaacccgt aatngcggnt ttccggttaa ccnagggttt gttcctnngc 300
cgnttcctcc aatttttgga nttttcccagn tnggggtccn ttntcttgtt nacngttcca 360
aacntaattg acanttaatt tttcctgtgt aanttgtccc cgganattnt gggntcttgg 420
ngcagggcct tttttcattg gaagcaaccc cntaaatttt taccaggctt gattgtttag 480
gaagtaatcc ttgcttngaa nccccacttn ttntttccaa ggntggaaac caggattttg 540
gaactgcaga ggcttcaggg tctgggaagc ggagcangca aagantggag tgcactgtcc 600
ttttgcaata tggggtttgc ttgcttgctg gctcntntcn tgctntntca gatggtgact 660
gaggctactt cagcaggact aggaataatc atgtccaggt ggntgcccct ccgagcagaa 720
agggacagac gtggggcgat gaagttgcta tcgttttttt ttttttctgc acagactgca 780
aagtgtgcag agggagggag gctgtgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaac 840
cgaggacgca gaagttagac tgctgaccca tttggtgcat gtgtgcccat ggagggaggg 900
gaccttctca aaagggttca cgcagcaagc attgaaagnt tccacntgta gngtcgcaag 960
caactgagat 970

<210> 123
<211> 884
<212> DNA
<213> Rattus norvegicus

<400> 123
ngggccccccc tcgaggtcga cggtatcgat aagcttgagg gacccacgtg atggaaaggg 60
agaagcaatt tagtgtcctn tgtcctctga cctccacaag tgctgtggca tggggacaca 120
ggactgtaca cacacacaca cacacacaca cacacacaca cacacacgca cgcacacaca 180
cccctcaagt aaccgtggaa taaaggtccg accagaaacc acgctggaac gggagatgct 240
ggagcacatc agggtggtgc taagcagcag atcggcctgt aactggcagc agaggggtgt 300
ggctctttca gaaccaggag ggcatcgccc ctccagccag actctccagc tttcttcccc 360
tccttgcctc ctgttttcct tctgcctacc ttcctttggc ctcaaaccat aatgtgcaac 420
acattcaaac tgtagtaagt gttttaattt tctactaaac aataaaacct ttagattttc 480
actgggccag tgctggtaac agcagactgg gtggagtatc acagagggtg tggagcaagc 540
tggctaccca gggctgggca cactcaacac tctggcattc ngtggaagtt ctgggcagta 600
aaaacagaag canacgtcac gcacaggttc catagtgtna ggcatcttaa tctancnaga 660
anacctggtg ttnagtntgt nnacaaaann gantgntgna cttggacagn ggtgttttnn 720
tcccagggct tccaggantt aggggtatac caggcccann acattgggna aacgtgtgtg 780
tnaannnttt cntntnaaac cnccnnggtt gacnactngn nntccntttn aanggnccca 840
gttccccttg gggggttngn tntggaaaaa ggctttccgg tttc 884

<210> 124
<211> 855
<212> DNA
<213> Rattus norvegicus

<400> 124
ccccttccgg ggggtttana anggaatnaa tgggtntntn ccaggggggg aaacccttna 60
ccgcgngcct ttcggaattt tngtccaccg naaaaaattt nccatgngca ccatgnaagn 120
tnacgagggn attnggggtt anagttttgg agtgggccaa nangaacatg gaggaatatt 180
tgttttggtt tgngaaccat accttggaaa gattgtattt ttatccgcca acaaccacng 240
tggtagggtg ttttttttgtt tgcagcagca gataagggca gaaaaaagat ntcagagatc 300
ctttgatntt tnttcggggt ngacgttcat gttgngngga ttgggagcgg anaacaattt 360
cacacagcaa ggagaggagc caatatagag gggaaaaaaa aagaagggga aagcagttag 420
tttaaaaagt tgagagaaca aagtatgttt tgnttggatg ggcaaccaaa gaagcntgcc 480
aggaatggtc ggtaaaaggt gtaagagtca tgaaagtntt ctgtccaacc gttaccggaa 540
acatgcaagg aatttcttag actggccagg attggattgt gggaaaggtn tnttcaagcn 600
tccccttggc ttttatggca agaaaatagt gcggactata gagagcgtcg ttcccaaagc 660
tttccccaat agcagaaaag cattgtccta aattccctaa aaggcaccgt gaaataaata 720
ttacgggaca cgatggcaca agaaggagct ttcaactctg ccaccagaac agttatactt 780
catagtaacc atgttgccct gttcaatgac aaggcacgct ctccagcaga aagggaaaag 840
gagctgagtt cgcac 855

<210> 125
<211> 1059
<212> DNA
<213> Rattus norvegicus

<400> 125
caatttttaa aaaaaagaat ttgggtttaa tccaaaantt gnnncaaaaa ttggttgacc 60
ntttnaaccc caaaaccatg nnttgncctt tcccctnacc ngtnatagtg nttgnantgt 120
aacccaacaa tcaacggnta tttgttcagg ganttnttgg taccaggcnn ttggttttga 180
naanacggta ggtccgggaa gcnttgacgg taagcccngg gganaagggc caacggngat 240
cccaaattag gagcttgacg cattgttttc ntttgcntgg aatgncattc ttctcttctc 300
cntttatcta gaaaacgntt actcatgctt caaanccacn gttgacttcc ccagcattgn 360
ttcncntagc tccttctttg aaacaactga ttgggaaatc aggaggatan gaaaagcttt 420
aacaagagct ttcaggggct ttcggagaga actcattctt gtaggacgca ggccatgcaa 480
gcatcaggct ctgccttctg gaccccagta tacaggacata tgcacaactg cagtggttca 540
tacttgtaat cccagtgtta ggaagactta gacttggagc ttgctggtca gactggtaag 600
cccagttcag tgagaccctg acttaaaaat gaagttggaa agaaatttgg aaagataatc 660
tggtattcat ctctgggctc tatttgcaca ggcacacaca caaatatacc aatataacat 720
acacagaaag agaaggggag ggaggaagag agggagggcg gtagagaact tgtgaatgtc 780
ttttgatagg tttttttttа agttattgga ttaaaccatc agcagtgtca cattggttaa 840
gttaaaaata ataaaatgaa gcaacttatc tttgctgaaa ttcattactc attatgagag 900
tttgataaaa aaaaagagga gtctcccaca gttttcctgt ctcatctttt actccagggg 960
acggtcacac tattcagtaa gatacctagg ctatctggct cactggactn ggcgtgaaag 1020
actnnacctg taggtttgng cgctgaaaag atcttnaac 1059

<210> 126
<211> 1042
<212> DNA
<213> Rattus norvegicus

<400> 126
aaacncnttc tgaanccccа aatcctnaga atnttttnaa aatccccccng gggngnagcc 60
aaatttaacn nttttttcca agagcatgaa cagngngatt cttggganag ctttngggtt 120
ccctttttnt naatcnncat ngagggttct aantgaacct naaggnnatt taacttttna 180
tggaacaaac ccgttggtgt gtccccctcct tggaganttg agttggaact taaaaaaaac 240
ctttccnaaa aattgtgtaa tctgantcca aacccaaatg aggacaaatc cagtgtagga 300
ggnatttagg caaattaaac tgacttggtc aactttctga aaatgatgtc ttgatttcag 360
gaaggatccc cagtgcntcg gggacntgaa agggagatgt aacccttgag ctcatggnta 420
ggaagggaaa tcttagagac agcttggtaa aatctgagtg aggttgagag gttggaggac 480
cacattgtgt atntgctcat ccctgtgagg gagagacttg tactctgctc ttgagaaggc 540
agaactgtta ggcagacact tagagaatat atgtcatggc aaangacatc cacccaacaa 600
gtcttcagta acaaagcact aaacagaaag gggttgaaga gacttggtca gtggcatgag 660
agntttatt gctcttacag aggactcggc atgcntagca gctcacaaca gcctgtgact 720
tcaacactat gcctcttggc ctcaggagac acctgtgtac tcccacccng acacatatac 780
ttaaaaataa aagaaatctt ttaaacattg agcaaatgta atcaggtact aacattgaat 840
atatctgggg ccaggaatta ttctggttta ttgccttttt cggaagccta atatcacaca 900
tagagaaata ggcagcacag gcctaacagc ccatantgtg tgctattcta tcaatagtgc 960

caagtattga catggactat tnttaaggcc aaangagagg tcnccagaaa gttatacatg 1020
taggttggcg cgctgaaagg at 1042

<210> 127
<211> 960
<212> DNA
<213> Rattus norvegicus

<400> 127
ggcccnnaat naaanggnng gttgaacccc ntnttngaca ngntgcccaa aantacnggn 60
aaccattncc naaatttnna agtgtgggat naaggcntgn cccatnatcc tcccctnttga 120
ntgcncccaa agtaaagncc aanttgaggg nggannnttn ttgaaacgta attaanattt 180
ttccgataag gaaacggagg cccgggaant gatccntttg gagttaccag gtcagtttag 240
cattaggntg acagttgnga ccaattnatc cttgcccgtt ggttggaagg agaggggant 300
aagggttaag ctcntgagtc ccttgaaggc cttggaatcg ggaattccct taaagccaac 360
ccctttgccg ttgaactgca ccaaccagat gtctnccagt ttgcttgaag agacgggatt 420
cantgntgtg gagaggggca ggagggntgg gaggtgacnt nacagggttc agggattctt 480
ttagaagggt ccaggctcat ggcttccccc ccccccagcc aggtcagaca ctaaagtgtc 540
ttaagcccct ccatacctgc cgctccccca ccttggatga agccggccat taggcaggga 600
ccgtctctgg gagaggccaa gccctctggc tcacttgtgg atttccttta agcaagactt 660
cctctctgct tccaggactc ctgtcaaaca agagggtccc tggcttagag tttgggagct 720
gcaggcagaa cagacattcc ccgatgactc acaagcctgg aactctgtgg gccagcagga 780
atggggatgg ctttctggtc agtcagggtc aactgggaca ctcactctga gacagggagg 840
caagggagaa acaggtcaga ggtagagaga gctcagtcca gggactcacg gtgaggtccc 900
taaggtgcgt agggagagga tntaacattc ggtttggnna gctagaaaag atctntaaaa 960